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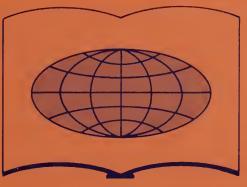
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# Pesticides DOCUMENTATION BULLETIN

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Volume 5 August 8, 1969 Number 16



U.S. DEPARTMENT OF AGRICULTURE

# PESTICIDES DOCUMENTATION BULLETIN

# A Bi-Weekly Publication of U.S. Department of Agriculture

# **OBJECTIVES AND SCOPE**

The Pesticides Documentation Bulletin is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

### **FORMAT**

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

- 10 Entomology
- 20 Crop Protection
- 30 Livestock Protection
- 40 Commodity Protection
- 50 Environmental Contamination
- 55 Residues
- 60 Toxicology
- 65 Plant Physiology & Biochemistry
- 70 Chemistry
- 80 Engineering
- 90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

Biographical Index: Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

Author Index: Names of personal authors are arranged alphabetically, followed by accession numbers of pertinent citations.

Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

Other Files

In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

The INTREDIS Register is a computer data bank in the field of forest pathology. It contains title and author references to abstracted articles including subject, country, host plant genus or species, organisms causing the diseases, abstracting journal and year of publication. The computer search uses boolean parameters in any combination of elements listed.

The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested

Company furnishing the compound

Author or Investigator

**Test Sponsor** 

Date

Location

Mode of Application

Rates of Application

Soil Types

Carriers

Crops or Weeds tested with phytotoxicity ratings

Associated documentation

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### ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

PLEASE GIVE COMPLETE BIBLIOGRAPHIC INFORMATION AS IT APPEARS IN THIS PUBLICATION FOR EACH ITEM REQUESTED.

This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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<sup>\*</sup>This issue does not contain citations under this category.



### **BIBLIOGRAPHY**

# **ENTOMOLOGY**

9249-69

ORGANOPHOSPHORUS PATENT 3,432,599.

INSECTICIDES.

JT Hackman

Us Patent Office Offic Gaz 860(2):580

11 Mar 1969 156.65 OF2

Chemical control (insects), Chemical structure, Insecticides, Organophosphorus compounds, Patents, Toxicity.

# **SYSTEMATICS**

9250-69

PHTHORIMAEA OPERCULELLA ZELL. (DA)

C H Aastrup

Flora Fauna 75(2):63-64

Jun 1969 410 F662

Insect taxonomy, Phthorimaca operculclla.

9251-69

THE SCARABAEIDAE, COLEOPTERA OF PAKISTAN. PART IV. ADORETINT (RUTELINAE) WITH DESCRIPTIONS OF EIGHT NEW SPECIES OF ADORETUS FROM WEST PAKISTAN.

M Abdullah R A Roohi

Pakistan J Sci Indus Res 11(4):415-422

Oct 1968 475 P174

Insect taxonomy, Scarabacidae, Surveys.

9252-69

NEOBLEDIUS KARACHIENSIS, A NEW GENUS AND SPECIES OF THE OXYTELINAE (COLEOPTERA: STAPHYLINIDAE) FROM WEST PAKISTAN.

M Ahdullah N N Qadri

Pakistan J Sci Indus Res 11(4):394-395

Oct 1968 475 P174

Insect taxonomy, Staphylinidae.

9253-69

ASHRAFIA ANWARULLAHI, A NEW GENUS AND SPECIES OF THE GALERUCINAE (COLEOPTERA: CHRYSOMELIDAE) FROM WEST PAKISTAN.

M Ahdullah S S Qureshi

Pakistan J Sci Indus Res 11(4):425-426

Oct 1968 475 P174

Chrysomelidae, Insect taxonomy.

9254-69

THE DUNG-ROLLERS OF PAKISTAN WITH OBSERVATIONS ON THE GENUS ANOMALA INCLUDING THE ECONOMIC IMPORTANCE AND DESCRIPTIONS OF NEW SPECIES FROM KARACHI (COLEOPTERA: SCARABAEIDAE).

M Ahdullah R A Roohi

Pakistan J Sci Indus Res 11(4):427-440

Oct 1968 475 P174

Economic entomology, Insect taxonomy, Scarahacidae, Surveys.

9255-69

A NEW GENUS AND SPECIES OF OF THE GALERUCINAE (COLEOPTERA: CHRYSOME-LIDAE) FROM PEAR TREE IN WEST PAKISTAN

M Abdullah S S Qureshi

Pakistan J Sci Indus Res 11(4):423-424

Oct 1969 475 P174

Chrysomelidae, Insect taxonomy, Pears.

9256-69

UNDESCRIBED SPECIES OF NEARCTIC TIPULIDAE (DIPTERA). X.

C P Alexander

Great Busin Natur 39(1):1-10 REF

28 Mar 1969 410 G79

Diptera, Insect morphology, Insect taxonomy, Tipulidae, Zoogeography.

9257-69

NEW SCARABAEIDAE SPECIES. 129, CONTRIBUTION TO THE SCARABAEOIDEA (COLEOPTERA). (GE)

V Balthasar

Beitr Entomol 18(7-8):953-958

1968 421 B392

Insect taxonomy, Zoogeography.

9258-69

MATERIALS CONCERNING THE KNOWLEDGE OF SYRPHIDAE (DIPTERA) OF AFGHANISTAN. (GE)

R Bankowska

Fragmenta Faunistica 14(9):195-208 REF

01 Mar 1968 410.9 W26F

Diptera, Insect taxonomy, Syrphidae, Zoogeography. Description of 53 species.

9259-69

A NEW FALCUNA SPECIES FROM WESTERN NIGERIA (LEPIDOPTERA: LYCAENIDAE).

N H Bennett

Entomologist (london) 102(1273):143-144

Jun 1969 421 EN8

Insect taxonomy, Lycaenidae.

9260-69

STUDIES OF THE MEXICAN DELTOCEPHALINAE: NEW SPECIES OF EUTETTIX AND TWO ALLIED NEW GENERA (HOMOPTERA: CICADELLIDAE).

B M BeLong H J Harlan

Ohio J Sci 68(3):139-152

May 1968 410 OH3

Cicadellidae, Insect taxonomy.

9261-69

LARVAL DEVELOPMENT OF MANSONIA MOSQUITOES IN CENTRAL FLORIDA.

W L Bidlingmayer

Mosquito News 28(1):51-57 REF

Mar 1968 421 M85

Insect ecology, Insect physiology, Insect populations, Larvae, Light, Mansonia, Temperature.

Abstract: The use of a trap for Mansonia larvae made it possible to collect smaller instars to follow the progression of broods and also make quantitative evaluation of larval densities in different marshes. Environmental factors were investigated and also the effect of temperature and light upon submergence time. The annual life cycle was studied by comparing light trap data with the proportion of different larval instars present each month.

9262-6

A HYMENOPTEROUS PRIMARY PARASITE OF MORABINE GRASSHOPPERS.

R E Blackith

Australian J Zool 15(1):93-102 MAP REF Fcb 1967 410 AU73

Acrididac, Braconidac, Insect biology, Insect taxonomy, Parasitic insects, Zoogeography.

A new species of braconid wasps parasitic on the Morabine grasshoppers is described and its distribution and life cycle are discussed.

9263-69

A NEW MEGASELIA FROM HAWAII (DIPTERA: PHORIDAE).

T Borgmeier

Hawaii Entomol Soc Proc 19(3):373-374

Jun 1967 420 H312

Insect taxonomy, Mcgaselia, Phoridae, Zoogeography.

9264-69

NEW RECORDS OF CHIGGERS FROM THE WEST INDIES.

J M Brennan

Hague Stud Fauna Curacao Carrib Islands 24:146-156 REF

1967 411.2 W122

Insect anatomy, Insect taxonomy, Trombiculidae, Zoogeography.

9265-69

RHYNCHOSCIARA BASCHANTI (DIPTERA, NEMATOCERA, SCIARIDAE), A NEW BRAZILIAN SPECIES.

M E Breuer

Sao Paulo Dep Zool Papeis Avulsos 20(21):259-263

1967 410.9 SA63

Bananas, Experimental insects, Insect anatomy, Insect biology, Insect identification, Insect morphology, Insect taxonomy, Larvae, Potassium hydroxide, Rhynchosciara baschanti, Sciaridae, Zoogeography.

9266-69

APHANOSPERMA, A NEW GENUS OF CERAM-BYCIDAE (COLEOPTERA) FROM WOODY FRUITS OF HAKEA SPP. IN AUSTRALIA.

E B Britton

Entomol Soc Australia (nsw) J 8(1):33-36

30 Jun 1969 423.92 EN84

Biological control (weeds), Cerambycidae, Insect taxonomy, Weed control.

Larvae of Aphanosperma occidentalis, n. sp., live within the mature woody fruits of Hakea spp. in south western Australia. The species may be of value for the control of Hakea in South Africa.

9267-69

A NEW SUBSPECIES OF CALLOPHRYS FOTIS FROM THE SAN FRANCISCO BAY AREA (LYCAENIDAE).

R M Brown

Lepidopterists Soc J 23(2):95-96

29 May 1969 421 L554

Insect taxonomy, Lycaenidae.

9268-69

A NEW SPECIES OF PYRRHALTA FROM SABLE ISLAND (COLEOPTERA: CHRYSOME-LIDAE).

W J Brown

Can Entomol 101(1):109

Jan 1969 421 C16

Chrysomelidae, Cranberries, Insect identification, Insect taxonomy, Pyrrhalta sablensis, Zoogcography.

9269-69

INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE.

W E China

Entomologist (london) 102(1273):148

Jun 1969 421 EN8

Insect names, Insect taxonomy, Legislation.

9270-69

THE MATURE FEMALE AND MALE GRADUN-GULA WOODWARDI FORSTER (ARANEAE: HYPOCHILOMORPHAE: GRADUNGULIDAE).

V T Davies
Entomol Soc Australia (nsw) J 8(1):95-97

30 Jun 1969 423.92 EN84

Araneae, Imagos, Insect taxonomy.

9271-69
A NEW SPECIES OF SCHIZOTETRANYCHUS (ACARINA: TETRANYCHIDAE) FROM QUEENSLAND.

J J Davis

Entomol Soc Australia (nsw) J 8(1):107-109 30 Jun 1969 423.92 EN84

Insect taxonomy, Tetranychidae. 9272-69

A NEW GENUS AND SPECIES OF THE TRIBE HYSTRICHONYCHINI (ACARINA: TETRANYCHIDAE) FROM QUEENSLAND.

J J Davis

Entomol Soc Australia (nsw) J 8(1):103-106
30 Jun 1969 423.92 EN84

Insect taxonomy, Tetranychidae.

THE SOFT SCALES (HOMOPTERA: COCCIDAE) OF SOUTH AFRICA. I.
G De Lotto

### **BIBLIOGRAPHY**

## 9274-69

S Afr J Agr Sci 10(3):781-795 REF

Sep 1967 24 SU3

Catalogs, Coecidae, Insect geography, Insect taxonomy

NOTES ON PHILIPPINE BLACK FLIES (DIP-TERA: SIMULIIDAE).

M P Delfinado

J Med Entomol 6(2):199-207

May 1969 421 J828

Insect taxonomy, Simuliidac.

9275-69

CONTRIBUTION TO THE STUDY HYMENOPTERA PROCTOTRUPOIDEA (XII).
WITH REGARD TO CERAPHRONIDAE
MEGASPILINAE MALES WITH BRANCHING ANTENNAE. (FR)

P Dessart

Inst Roy Sci Natar Belg Ball 42(32):16P REF

31 Dec 1966 504 B835B

Antennae, Ceraphronidae, Hymenoptera, Inseet identification, Insect names, Insect taxonomy, Proctotrupoidea. English summary.

9276-69

RESULTS OF THE ZOOLOGICAL RESEARCH OF DR. Z. KASZAB IN MONGOLIA. NO. 163: HOMOPTERA, AUCHENORRHYNCHA. (GE) J Dlabola

Acta Ent Bohemoslov 65(5):364-374 REF

20 Sep 1968 420 C33

Achrus, Auchenorrhynea, Erythroneura, Hardya, Insect identification, Insect taxonomy, Issus, Zoogcography. Listing of many other species english and Czech summaries

9277-69

THE SPIDERS OF MISSISSIPPI.

P R Dorris Y J McGaha

Miss Acad Sci J 13:124-125

1967 500 M697

Insect ecology, Insect taxonomy, Research, Spiders, Zoogeography.

A REVISED SYNONYMIC LIST OF THE NEARCTIC MELITAEINAE WITH TAX-ONOMIC NOTES (NYMPHALIDAE).

C F Dos Passos

Lepidopterists Soc J 23(2):115-125

29 May 1969 421 L554

Insect taxonomy, Nymphalidae, Zoogcography.

DESCRIPTIONS OF SOME NEW CHEYLETID MITES FROM THE UNITED ARAB REPUBLIC. (ACARINA: CHEYLETIDAE).

E A Elbadry

Rev Zool Bot Afr 78(3/4):233-245 REF

30 Dec 1968 410 R26

Acaropsis africanus, Cheletogenes arboreous, Cheyletidae, Cheyletus denticus, Insect identification, Insect taxonomy, Ker laneeolatus, Mites, Nodele philippinensis, Paracheyletia citri, Zoogeography.

9280-69

THE BEES OF FINLAND. (GE)

R Elfving

Soc Faana Flora Fenn Faana Fenn 21, 69P REF MAP

Feb 1968 511 SO1

Bees, Hymenoptera, Insect taxonomy, Zoogeography. Collecting records, representing 33 genera.

ON A SIMULIUM OF THE GROUP NEAVEL CAPTURED IN ETHIOPIA. (PRELIMINARY REPORT). (FR)

A Fain A P Oomen

Rev Zool Bot Afr 78(3/4):246-250

30 Dec 1968 410 R26

Insect identification, Insect taxonomy, Simulium neavei, Simulium woodi, Zoogeography.

9282-69

REDESCRIPTION OF OPIUS SCAEVOLAE (CAMERON) (HYMENOPTERA, BRACONIDAE, OPIINAE). (GE)

M Fischer

Entomophaga 13(3):237-239

1968 421 EN835

Braconidae, Insect taxonomy, Opius. English abstract.

9283-69

NEW SPECIES AND A REVISED KEY TO THE HAWAIIAN CYRTOPELTIS FIEB. WITH NOTES ON CYRTOPELTIS (ENGYTATUS) HAWAIIENSIS KIRKALDY (HETEROPTERA: MIRIDAE).

W C Gagne

Hawaii Entomol Soc Proc 20(1):35-44

Jun 1968 420 H312

Insect taxonomy, Miridae, Zoogeography.

A CATALOG OF HAWAIIAN ACARINA.

L E Garrett F H Haramoto

Hawaii Entomol Soc Proc 19(3):381-414 REF

Jun 1967 420 H312

Acarina, Bibliography, Catalogs, Zoogeography.

ONYCHIURUS SEVERINI WILLEM, 1902 (COLLEMBOLA). (FR)

H Gisin

Rev Suisse Zool 75(1):1-3

Apr 1968 410 R324

Collembola, Insect taxonomy.

ECTOBIUS PALLIDUS OLIVIER (DICTYOP-TERA, BLATTIDAE SENSU LATO) IN GUERN-SEY.

F D Goodliffe

Entomologist (london) 102(1273):142

Jun 1969 421 EN8

Blattidae, Insect taxonomy, Zoogcography.

9287-69

MORPHOLOGICAL CRITERIA AS INDICATORS OF SPECIES LIMITS IN SPIDERS OF THE SUBFAMILY ARANEINAE. (ARACHNIDA: ARANEAE: ARANEIDAE). (GE)

M Grasshoff

Senckens Natarforsch Ges Frankfart Main Abhandl (516):100P MAP REF

15 Fcb 1968 410.9 SE52

diadematus, Araneus Araneus marmoreus. Araneus pallidulus, Araneus quadratus, Insect identification, Insect morphology, Insect taxonomy, Spiders. English summary.

THE TAXONOMIC STATUS OF DIALECTICA SOFFNERI (GREGOR AND POVOLNY) AND PARECTOPA CUPEDIELLA (HERRICH-SCHAFFER) (LEPIDOPTERA, LITHOCOL-LETIDAE). (GE)

F Gregor D Povolny

Acta Ent Bohemoslov 65(5):391-394

20 Sep 1968 420 C33

Dialectica soffneri, Gracillariidae, Insect identification, Insect taxonomy, Parcetopa cupediella. English and Czech summaries.

CENTIPEDS (CHILOPODA) OF THE LODZ PLATEAU. (POL)

J Gronska

Fragmenta Faunistica 14(8):183-193 REF

15 Fcb 1968 410.9 W26F

Chilopoda, Climate, Forests, Humidity, Insect taxonomy, Zoogeography. German and Russian summary, description of 19 species.

A TROGLOBITIC STAPHYLINID FROM MEX-(COLEOPTERA, STAPHYLINIDAE, PAEDERINAE).

Amer Mas Novitates (2367):1-9

24 Apr 1969 500 N483N

Cave fauna, Insect taxonomy, Staphylinidae.

DISTRIBUTION OF ANT SPECIES OF HAWAII.

E W Huddleston S S Fluker

Hawaii Entomol Soc Proc 20(1):45-69 REF Jun 1968 420 H312

Formicidae, Habitats, Surveys, Zoogeography.

9292-69

PICTORAL KEY OF THE ANTS OF HAWAII BASED ON THE WORKER FORMS.

E W Huddleston A A Laplante S S Fluker Hawaii Entomol Soc Proc 20(1):71-79

Jun 1968 420 H312

Formicidae, Illustrations, Insect identification, Insect taxonomy.

FLEAS OF THE SUBFAMILY CTENOPHTHAL-MINAE (HYSTRICHOPSYLLIDAE, SIPHONAP-TERA) IN TAIWAN.

E W Jameson P Y Hsieh J Med Entomol 6(2):179-185

May 1969 421 J828

Inscct taxonomy, Siphonaptera.

9294-69

A NEW HORNET, VESPULA AUSTRIACA, FOR DENMARK. (DA)

P Johnsen

Flora Faana 75(2):61-

Jun 1969 410 F662

Insect taxonomy, Vespula.

9295-69 THE DONACIINAE OF NORTH AFRICA (COL.

CHRYSOMELIDAE). (FR) P Jolivet

Arch Hyg Bakteriol 37(7):307-315 MAP

Sep 1968 505 L992B Chrysomelidae, Insect biology, Insect ecology, Insect taxonomy, Zoogeography. English summary. description of 7 species of Donacia.

9296-69

SCALPONOTATUS, A NEW GENUS NEAR SLATEROCORIS, WITH DESCRIPTIONS OF NEW SPECIES (HETEROPTERA: MIRIDAE).

L A Kelton

Can Entomol 101(1):15-23

Jan 1969 421 C16

Illustrations, Insect anatomy, Insect taxonomy, Miridac, Scalponotatus, Slaterocoris, Strongylocoris. The author lists nine new species of the new genus Scalponotatus. Strongylocoris albibasis is also placed in this genus.

9297-69

RESULTS OF THE ZOOLOGICAL RESEARCH OF DR. Z. KASZAB IN MONGOLIA. 115. HOMOPTERA: PSYLLODEA OF THE III. EX-PEDITION. (GE)

S M Klimaszewski

Fragmenta Faunistica 25(8):403-418 REF

01 Mar 1968 410.9 W26F

Homoptera, Insect identification, Insect taxonomy, Psyllidae, Zoogeography. Polish and Russian summaries. description of many other species

9298-69

A NEW SPECIES OF BATYLE FROM UTAH (COLEOPTERA: CERAMBYCIDAE).

J N Knull

Ohio J Sci 68(4):233-234 Jul 1968 410 OH3

Cerambyeidae, Insect taxonomy.

9299-69

DELTOCEPHALINE: ALIGIA AND SOME NEW ALLIED GENERA AND SPECIES (HOMOPTERA: CICADELLIDAE).

J P Kramer D M Del

J P Kramer D M Delong

Ohio J Sci 68(3):169-175 May 1968 410 OH3

Cicadellidae, Insect taxonomy.

SUSA AUDY AND NADCHATRAM, A SUB-GENUS OF CHELADONTA LIPOVSKY ET AL., (NEW STATUS). WITH DESCRIPTIONS OF TWO NEW SPECIES OF CHELADONTA FROM THAILAND.

P Lakshana

J Med Entomol 6(2):135-139

May 1969 421 J828

Insect taxonomy, Trombidiidae.

On the basis of 2 new species of chiggers described belowCheladonta (Cheladonta) gouldi and C. (Suga) prachongaethe genus Susa Audy and Nadehatram is reduced to a subgenus and placed within the expanded genus Cheladonta Lipovsky et al. A bay to the knows species of the subgenus Susa al. A key to the known species of the subgenus Susa is given.

9301-69

HELICONIUS HECALE AND XANTHOCLES IN VENEZUELA (NYMPHALIDAE).

J H Masters

Lepidopterists Soc J 23(2):104-105

29 May 1969 421 L554

Insect taxonomy, Nymphalidae, Surveys.

SEVERAL NEW TACHINIDAE OF MELANESIA (DIPT., TACHINIDAE). (FR

L P Mesnil

Entomophaga 13(3):203-208

1968 421 EN835

Insect taxonomy, Tachinidae, Zoogeography. English abstract.

DETAILED DESCRIPTION OF LARVA OF POLYDORUS ARISTOLOCHIAE.

G H Munshi S A Moiz

Lepidopterists Soc J 23(2):107-108

29 May 1969 421 L554

Insect taxonomy, Larvae, Papilionidae.

NEW SUBSPECIES OF PYRRHOPYGE CREOW (HESPERIIDAE) FROM PANAMA.

S S Nicolay G B Small

Lepidopterists Soc J 23(2):127-130

29 May 1969 421 L554

Hesperiidae, Insect taxonomy.

A SAWFLY, CEPHALCIA RETICULATA (L.) (HYMENOPTERA: PAMPHILIIDAE), NEW FOR DENMARK, (DA)

B O Nielsen

Flora Fauna 75(2):65-67 REF

Jun 1969 410 F662

Cephalcia, Insect taxonomy. English abstract.

9306-69

THE HETEROPTERA OF THE NETHERLANDS ANTILLES. VI. NOTONECTIDAE,

N Nieser

Hague Stud Fauna Curação Carrib Islands 24:157-189 MAP REF

1967 411.2 W122

Entomology, Heteroptera, Insect anatomy, Insect taxonomy, Notonectidae, Zoogeography. Nine species are described.

9307-69

BEETLES NEW TO FAUNA OF BABIA GORA MOUNTAINS. (COLEOPTERA). III. (POL)

J Pawlowski

Fragmenta Faunistica 14(10):209-229 REF

15 Mar 1968 410.9 W26F

Colcoptera, Insect taxonomy, Zoogeography. English and Russian summary. 269 species are discussed

CHALCIDOID (HYMENOPTERA) PARASITES OF THE ALFALFA LEAFCUTTER BEE, MEGACHILE ROTUNDATA, IN CANADA.

Can Entomol 101(4):418-422 REF

Apr 1969 421 C16

Hymenenoptera, Insect taxonomy, Megachile rotundata, Parasitic insects.

CATALOGUE OF THE TYPES IN THE COL-LECTIONS OF THE GERMAN ENTOMOLOGI-INSTITUTE--I. EPHEMEROPTERA, ODONATA, PLECOPTERA. (GE)

G Petersen H Gaedike

Beitr Entomol 18(7-8):959-969

1968 421 B392

Catalogs, Ephemeroptera, Odonata, Plecoptera, Zoogeography. English and Russian abstracts.

OCHODAEINAE AND ACANTHOCERINAE FROM THE FAUNISTIC REGION OF ETHIOPIA AND MADAGASCAR. (COLEOP-TERA SCARABAEIDAE). (GE)

Rev Zool Bot Afr 78(3/4):251-262

30 Dec 1968 410 R26

Acanthocera, Ochodaeinae, Scarabaeidae, Zoogeography. Among others, eight new species are described.

9311-69

SUPPLEMENTAL NOTES ON THE FAR EAST-ERN BIANNULARIS GROUP OF TABANUS.

J Med Entomol 6(2):197-198

May 1969 421 J828

Insect taxonomy, South-East Asia, Tabanus.

CATALOGUE OF NEW WORLD DERMAPTERA (INSECTA). PART 1: INTRODUCTION AND PYGIDICRANOIDEA.

H Reichardt

Sao Paulo Dep Zool Papeis Avulsos 21(19):183-193

05 Mar 1968 410.9 SA63

Catalogs, Dermaptera, Insect identification, Insect taxonomy, Pygidicranoidea, Zoogeography.

THE RHAPHIDOPHORIDAE (ORTHOPTERA) OF AUSTRALIA. PART 5. THE RHAPHIDOPHORIDAE OF FLINDERS ISLAND.

A M Richards

Linnean Soc New South Wales Proc 92(414,PT 2):151-156

22 Dec 1967 514 SY2

Gryllacrididae, Insect geography, Insect taxonomy,

DREPANAPHIS PALLIDA, A NEW APHID COL-LECTED ON ACER SACCHARUM IN ONTARIO (HOMOPTERA: APHIDIDAE).

W R Richards

Can Entomol 101(1):107-108 Jan 1969 421 C16

Acer saccharum, Aphididae, Drepanaphis granovskyi, Drepanaphis pallida, Insect anatomy, Insect identification, Insect morphology, Insect taxonomy, Zoogeography.

9315-69

A NEW SPECIES OF TUBERCULATUS FROM TURKEY, WITH REVISIONARY, DESCRIPTIVE NOTES ON TUBERCULOIDES (HOMOPTERA: APHIDIDAE).

W R Richards

Can Entomol 101(1):51-61

Jan 1969 421 C16

Aphididae, Insect anatomy, Insect morphology, Insect taxonomy, Tuberculatus, Tuberculoides, Zoogeography.

9316-69

THE LARVAE OF AUSTRALIAN IXODIDAE (ACARINA: IXODOIDEA).

F H S Roberts

Entomol Soc Australia (nsw) J 8(1):37-78 REF 30 Jun 1969 423.92 EN84

Insect identification, Ixodidae, Larvac, Surveys.

9317-69

THE PROBLEM OF INSECT IDENTIFICATION AND THE UNIVERSITY OF ARKANSAS REFERENCE COLLECTION.

F P Rouse

Ark Acad Sci Proc 21:45-48

1967 500 AR42

Insect collection, Insect identification, Insect taxonomy, Research, Sareophagidae.

DETERMINATION OF MOSQUITO HOSTS IN SALT MARSH AREAS OF LOUISIANA. R E Schaefer C D Steelman

J Med Entomol 6(2):131-134 REF

May 1969 421 1828

Acdes sollicitans, Animals, Culicidae, Insect feeding, Surveys.

9319-69

THE BANANA CORM WEEVIL, COSMOPOLITES SORDIDUS IN THE COCOA REGION OF BAHIA, BRAZIL. WEEVIL,

P Silva J M De Abreu

China Plant Protect Bull 16(6):111-113 MAP REF

Dec 1968 464.9 C47

Cosmopolites sordidus, Surveys, Zoogeography.

9320-69

NOTE ON THE CHANGE OF A SPECIFIC NAME OF NEW GUINEA CULEX (LOPHOCERAOMYIA) (DIPTERA: LICIDAE).

S Sirivanakarn

J Med Entomol 6(2):119

May 1969 421 J828

Culex, Insect names, Insect taxonomy.

THE AEDES MOSQUITOES OF NEW ENGLAND (DIPTERA: CULICIDAE). II. LARVAE: KEYS TO INSTARS, AND TO SPECIES EXCLU-SIVE OF FIRST INSTAR.

M E Smith

Can Entomol 101(1):41-51 REF

Jan 1969 421 C16

Aedes, Culicidae, Insect identification, Insect taxonomy, Larvae, Zoogeography.

9322-69

PARASARCOPHAGA (CURRANEA) TIBIALIS (MACQUART, 1850) A NEW SPECIES FOR THE CZECHOSLOVAK FAUNA (DIPTERA).

M Stanek Acta Ent Bohemoslov 65(5):395-396 REF

20 Sep 1968 420 C33

Insect identification, Insect taxonomy, Parasarcophaga, Sareophagidae. Czech summary.

9323-69

HAWAIIAN TOXORHYNCHITES (DIPTERA: CULICIDAE).

W A Steffan

Hawaii Entomol Soc Proc 20(1):141-155

Jun 1968 420 H312

Insect taxonomy, Toxorhynchites, Zoogeography.

9324-69

OCCURRENCE OF THYMELICUS LINEOLA (HESPERIIDAE) IN VIRGINIA.

G B Straley

Lepidopterists Soc J 23(2):76

29 May 1969 421 L554 Hesperiidae, Zoogeography.

TAXONOMIC AND BIOLOGICAL STUDIES OF HAWAIIAN SPHAEROCERIDAE (DIPTERA). J A Tenorio

Hawaii Entomol Soc Proc 20(1):169-212 REF Jun 1968 420 H312

Insect biology, Insect taxonomy, Sphaeroceridae, Zoogeography

3

9326-69

TWO NEW SPECIES OF LEPTOCERA OLIVI-ER FROM HAWAII (DIPTERA: SPHAEROCERIDAE).

J A Tenorio

Hawaii Entomol Soc Proc 19(3):425-429

Jun 1967 420 H312

Insect taxonomy, Sphaeroceridae, Zoogeography.

9327-69

CONCORDANCE AND DISCORDANCE OF TAXONOMIC CHARACTERS IN DROSOPHILA CLASSIFICATION.

L H Throckmorton

Syst Zool 17(4):355-387

Dec 1968 410 SY8

Drosophila, Insect taxonomy, Methodology, Statistical analysis.

9328-69

ARTHROPODA ASSOCIATED WITH A NEST OF THE HAWAIIAN CROW.

P Q Tomich

Hawaii Entomol Soc Proc 19(3)431-432

Jun 1967 420 H312

Arthropoda, Bird nests, Insect ecology, Surveys.

9329-69

SYSTEMATIC INVESTIGATIONS ON EAST-IN-DIAN AND AUSTRALIAN HEMIPEPSIS, VIII. ON THE SPECIES OF THE SUB-GENUS MOROPEPSIS BANKS, 1934 (HYMENOPTERA POMPILIDAE, PEPSINAE). (FR

R Wahis

Inst Roy Sci Natur Belg Bull 42(12):17P REF

26 Oct 1966 504 B835B

Hemipepsis, Insect taxonomy, Pompilidae, Zoogeography.

9330-69

BOLORIA POLARIS (NYMPHALIDAE) IN NORTHERN BRITISH COLUMBIA.

R E Woodley

Lepidopterists Soc J 23(2):113-115

29 May 1969 421 L554

Insect taxonomy, Nymphalidae, Zoogeography.

9331-69

SYSTEMATIC STUDIES OF THE CENTRAL EUROPEAN SPECIES OF THE GENUS AUSTROMENOPON BEDF. (MALLOPHAGA, AUSTROMENOPONINAE). (GE)

J Zlotorzyeka

Pol Pismo Entomol 38(2):301-340 REF

1968 421 P76

Austromenopon, Birds, Insect taxonomy, Mallophaga, Menoponidae, Parasitic insects, Zoogeography. Polish summary. 43 species and their host animals are discussed.

# PHYSIOLOGY AND BIOCHEMISTRY

9332-69

REARING THE FOREST TENT CATERPILLAR ON AN ARTIFICIAL DIET.

N D Addy

J Econ Entomol 62(1):270-271

17 Feb 1969 421 J822

Diet, Experimental insects, Insect nutrition, Insect physiology, Insect rearing, Malaeosoma disstria, Microbial contamination, Mortality.

9333-69

THE BREEDING OF PLANOCOCCUS CITRI (HOMOPTERA: PSEUDOCOCCIDAE) ON SPROUTING POTATO.

A Z Al-Ali

Roy Entomol Soc London Proc Ser A Gen Entomol 44(1-3):45-47

22 Apr 1969 420 L84PA

Insect rearing, Life eyele, Planococcus citri, Potatoes.

9334-69

A STUDY OF THE HIBERNATION OF BUMBLEBEES (HYMENOPTERA: BOMBIDAE) IN SOUTHERN ENGLAND.

D V Alford

J Anim Ecol 38(1):147-170 REF

Feb 1969 410 J826

Bombinae, Habitats, Hibernation, Insect behavior, Insect ecology, Insect physiology, Surveys.

9335-69

BIOLOGICAL EXAMINATION OF PSYL-LIODES CHRYSOCEPHALA L. (BU)

R Angelova

Vissh Selskostopanski Inst Vasil Kolarov Nauch Tr 16(2):229-240

1967 106.3 P72

Chrysomelidac, Diapause, Insect biology, Insect morphology, Insect pests, Larvac, Oviposition, Psylliodes chrysocephala, Vegetables. German and Russian summaries.

9336-69

CAPSULE CONTROLS FIRE ANT.

Anonymous

Tennessee Farmer 16(2):4F

Feb 1969 S115.T42

Baits, Chemical control (insects), Chlorinated hydrocarbons, Insect pests, Insecticides, Mirex, Solenopsis geminata, Venoms, Zoogcography.

9337-69

BATTLE AGAINST THE CORN BORER.

Anonymous

Tennessee Farmer 16(2):27

Feb 1969 S115.T42

Corn, Enzymes, Glycosides, Insect pests, Ostrinia nubilalis, Plant biochemistry. Insect feeding thought to set off reaction between plant enzymes and glucoside, producing DIMBOA which rapidly breaks down into MBOA.

9338-69

BIG CODLING MOTH CONTROL PROJECT IN CANADA.

Anonymous

Orchardist New Zealand 41(10):368,370

Nov 1968 80 OR19

Biological control (insects), Carpocapsa pomonella, Fruit, Insect pests, Irradiation, Sterility.

9339-69

PERIODICITY IN THE PROPORTIONS OF HAEMOCYTE CATEGORIES IN THE GIANT COCKROACH, BLABERUS GIGANTEUS.

J W Arnold

Can Entomol 101(1):68-77

Jan 1969 421 C16

Blaberus giganteus, Cytoplasm, Haemoeytes, Insect behavior, Laboratory animals, Light, Photoperiodism, Serum.

9340-69

THE PROBLEM OF THE OOTHECA SECRETION IN ORTHOPTEROIDS IN THE LIGHT OF THE MOST RECENT ACQUISITIONS. (IT)

B Baccetti

Accad Naz Ital Entomol Atti 8:112-136 REF

1960 420 AC2

Acridoidea, Colleterial glands, Epithelium, Glands (insects). Insect biochemistry, Insect eggs, Insect physiology, Orthoptera, Oviduets, Secretion. English summary.

9341-69

PRELIMINARY RESULTS OF A NEW SEASONAL INVESTIGATION ON BROOK HYDRACARINAE (ACARI-TROMBIDI FORMES), (GE)

C Bader

Rev Suisse Zool 75(3):498-505

Sep 1968 410 R324

Aquatic insects, Hydrachnellae, Hygrobates fluviatilis, Insect biology, Insect ecology, Insect populations, Mites, Panisus michaeli, Sex ratios, Sperchon glandulosus, Trombidiformes, Zoogeography.

9342-69

OBSERVATIONS ON THE PARASITES (HYMENOPTERA, DIPTERA) OF TRICHOTAPHE LEVISELLA FYLES (GELECHIIDAE, LEPIDOPTERA) WITH NOTTES ON THE HOST.

W V Balduf

Ohio J Sci 69(1):36-52

Jan 1969 410 OH3

Braconidae, Eulophidae, Gelechiidae, Ichneumonidae, Insect biology, Predaecous insects, Pteromalidae, Tachinidae.

9343-69

A SUCTION-ELECTRODE STUDY OF THE HOUSE FLY HEART.

R C Ballard M S Hall

Entomol Soc Amer Ann 62(2):375-379 REF

Mar 1969 420 EN82

Dorsal vessel, Electrophysiology, Musea domestica.

9344-69

ALKALI BEES: RESPONSE OF ADULTS TO PATHOGENIC FUNGI IN BROOD CELLS.

S W T Batra G E Bohart

Science 165(3893):607-608 REF

08 Aug 1969 470 SC12

Aspergillus, Aspergillus flavus, Entomogenous fungi, Fusarium solani, Insect behavior, Insect diseases, Larvae, Mucor, Nomia melanderi, Rhizopus, Social insects, Spore germination.

9345-69

COMPARATIVE ACTION OF AN OLIGO-IN-FECTION OF BACILLUS THURINGIENSIS AND OF TOTAL STARVATION ON THE WATER, LIPID, AND NITROGEN CONTENTS OF A LEPIDOPTERAN. (FR)

L Baud

Entomophaga 13(3):229-231 1968 421 EN835

Bacillus thuringiensis, Bombyx mori, Inseet metabolism, Lipids, Nitrogen, Water. English abstruct

9346-69

PARATHION AND LINDANE IN THE CONTROL OF THE SPRUCE GALL APHID. (FR)

R Baurant E Scutin A Plasman R Caussin Bull Recherch Agron Gembloux (N s)3(1):3-14 1968 S5.B8

Adelges, Chemical control (insects), Chermes tardus, Insect behavior, Insect biology, Insecticide application, Insecticide residues, Lindane, Parathion, Picea. English and German summaries.

03 17 60

PRELIMINARY STUDIES ON THE ISOLATION OF PTERINS FROM THE WINGS OF HELICONIID BUTTERFLIES.

I G Baust

Zoologica (new York) 52(1,SPRING):15-20 REF 1967-410 Z722

Amino-4-pteridinol, 2-, Insect biochemistry, Lepidoptera, Wings (insects).

9348-69

AMMONIUM-INDUCED TERMINATION OF DIAPAUSE IN THE EUROPEAN CORN BORER, OSTRINIA NUBILALIS.

S D Beek J L Shane J A Garland

J Insect Physiol 15(6):945-951 REF Jun 1969 421 J825

Ammonium acetate, Eedysone, Inseet physiology, Ostrinia nubilalis.

9349-69

A DECADE WITH THE ALFALFA WEEVIL IN TENNESSEE.

S E Bennett

Tenn Agr Exp Sta Bull (446):33P MAP REF Oct 1968 100 T25S (1)

Alfalfa, Biological control (insects), Chemical control (insects), Cultural control (insects), Hypera postica, Insect pests, Insect physiology.

A NOTE ON THE COMPARATIVE BIOLOGY OF SOME ITALIAN CASSIDAE. (COL., CHRYSOMELIDAE). (IT)

C Bibolini

Accad Naz Ital Entomol Atti 8:180-190

1960 420 AC2

Cassida algirica, Cassida rubiginosa, Cassida viridis, Chrysomelidae, Hibernation, Host indexing (plants). Insect biology, Insect physiology, Zoogeography. English summary.

A THESIS BY G. STREBLER ON THE GALL MIDGE OF ALFALFA. (FR)

L Bonnemaison

Phytoma 20(199):37-39

Jun 1968 464.8 P563

Alfalfa, Cccidomyiidae, Contarinia medicaginis, Insect biology, Insect ecology, Insect morphology, Parasitic insects. Review of doctoral dissertation by Strebler entitled: Etude d'un itonidide cecidogene (Contarinia medicaginis Kieffer) et son hote.

PRELIMINARY RESULTS OF THE REARING OF A HYMENOPTEROUS CHALCID (P-TEROMALUS PUPARUM L.) ON THE HEMOLYMPH OF A LEPIDOPTERAN.

M Bouletreau

Entomophaga 13(3):117-122

1968 421 EN835

Hemolymph, Insect nutrition, Insect rearing, Pieris hrassicae, Pteromalidae. English abstract.

EFFECTS OF DIETARY AMINO ACIDS, SALTS, AND PROTEIN STARVATION ON FECUNDITY OF THE PARASITOID EXERISTES COMSTOCKII (HYMENOPTERA: ICHNEU-MONIDAE).

G K Bracken

Can Entomol 101(1):91-96 REF

Jan 1969 421 C16

Amino acids, Diet, Excristes comstockii, Fertility, Ichneumonidae, Insect eggs, Parasites, Proteins, Salts, Starvation.

9354-69

PHEROMONE-MEDIATED **BEHAVIOUR** LEADING TO GROUP OVIPOSITION IN THE BLOWFLY LUCILIA CUPRINA.

L B Browne R J Bartell H H Shorey J Insect Physiol 15(6):1003-1014 REF

Jun 1969 421 J825

Insect hehavior, Olfactory response, Oviposition, Phaenicia cuprina, Pheromones, Sex.

Females of Lucilia cuprina oviposit in groups, the formation of which depends, in part, on the responses of females to stimulation from other flies. This stimulation is important in causing females to oviposit and in influencing them to lay near already ovipositing females. Both types of action have a strong contact component; in addition, there is a weaker olfactory component which plays some part in the aggregative response.

9355-69

HORMONAL INHIBITION OF THE PROTHORACIC GLAND BY THE BRAIN IN

D B Carlisle P E Ellis

Nature 220(5168):706-707 REF

16 Nov 1968 472 N21

Brain, Glands (insects), Hormones, Insect physiology, Locusta migratoria migratorioides, Prothoracie glands, Ribonucleic acid, Schistocerca gregaria.

HEIGHT PREFERENCES FOR OVIPOSITION OF APHIDOPHAGOUS SYRPHIDAE (DIP-TERA).

A E F Chandler

Entomophaga 13(3):187-195 1968 421 EN835

Aging, Insect behavior, Oviposition, Parasitic insects, Syrphidac

9357-69

ASEPTIC REARING OF COPROPHAGOUS BEETLE: APHODIUS CONSTANS DUFT. (COL., SCARABAEIDAE), (FR)

R Charpentier

Ann Epiphyt 19(3):533-538 REF

1968 464.9 F84AN

Aphodius, Germ-free life, Insect rearing, Methodology. English abstract.

THE LIGHT THRESHOLD CONTROLLING PERIODICITY OF INVERTEBRATE DRIFT.

1 Chaston

J Anim Ecol 38(1):171-180

Fcb 1969 410 J826

Aquatic insects, Diurnal rhythm, Insect dissemination, Larvae, Light.

THE DISTRIBUTION OF FACTOR S IN THE COCKROACH, PERIPLANETA AMERICANA, AND ITS ROLE IN STRESS PARALYSIS.

B J Cook M De la Cuesta J G Pomonis

J Insect Physiol 15(6):963-975 REF

Jun 1969 421 J825

Biological assay, Insect physiology, Musca domestica, Nervous system, Periplaneta americana, Stress.

9360-69

OBSERVATIONS ON POLYMORPHISM IN TWO SPECIES OF HELICONIINE BUTTER-FLIES FROM TRINIDAD, WEST INDIES. L M Cook L P Browner

Entomologist (london) 102(1273):125-128

Jun 1969 421 EN8

Color, Insect morphology, Nymphalidae, Polymorphism, Wings (insects).

9361-69

TREES FOR BEES. V A Cook

New Zeal J Agr 118(6):45, 47

Jun 1969 23 N48J

Apiculture, Apis mellifera, Crataegus, Currants, Insect nutrition, Surveys, Trees.

CHANGES IN SUSCEPTIBILITY OF SCREWWORM FLIES TO THE CHEMOSTERILANT N,N'-TETRAMETHYLENEBIS(I-AZIRIDINECARBOXAMIDE), WITH TIME OF ADMINISTRATION.

M M Crystal

J Econ Entomol 62(1):275-276

17 Feb 1969 421 J822

Biological control (insects), Chemical control (insects), Chemosterilants, Cochliomyia hominivorax, insects, Susceptibility, Insecticide resistant Tetramethylene his(1-aziridinecarboxamide), N,N'-, Time.

POPULATION DYNAMICS OF THE WEEVIL SITONA REGENSTEINENSIS (HBST.) ON BROOM.

W Danthanarayana

J Anim Ecol 38(1):1-18 REF

Feb 1969 410 J826

Curculionidae, Cytisus, Insect hiology, Insect nutrition, Insect physiology, Mortality, Population,

9364-69

CHANGES IN TEMPERATURE TOLERANCE DURING THE LIFE CYCLE OF CALLIPHORA ERYTHROCEPHALA.

T F Davison

J Insect Physiol 15(6):977-988 REF

Jun 1969 421 J825

Calliphora vicina, Insect acelimatization, Insect biology, Insect physiology, Temperature.

STUDY OF SOCIAL RELATIONSHIPS IN ANTS OF THE GENUS APHAENOGASTER. (FR) B Dclage P Jaisson

Acad Sci Compt Rend Ser D Sci Nat 268(4, 1ST SEMESTER):701-703

27 Jan 1969 505 P21

Aphaenogaster, Formicidae, Gastrointestinal system, Insect behavior, Insect morphology, Social insects.

9366-69

RESEARCH ON MESSOR OF THE BASIN OF AQUITAINE: ECOLOGY AND BIOLOGY. (FR) B Delage

Bull Biol France Belg 102(3):315-367 MAP REF 1968 473 B87

Formicidae, Insect biology, Insect ecology, Messor, Zoogeography. English summary.

THE PROLIFERATION OF AQUATIC PLANTS IN LAKE TRASIMENO AND ITS CONSEQUENCES ON THE DIFFUSION OF PHYTOCHIRONOMUS SEVERINI GOETGH. (IT)

M V Di Giovanni

Accad Naz Ital Entomol Atti 8:262-268 REF

1960 420 AC2

Chemical control (insects), Aquatic plants. Chironomidae, Chlorinated hydrocarbons, Herbicides, Insect ecology, Insect outbreaks, Insect pests, Larvae, Myriophyllum spicatum, Nymphs, Phytochironomus severini, Population, Potamogeton perfoliatus, Toxicity, Zoogeography. English summary. Population,

CONTROL OF PLANT BUG COMPLEX.

R L Dinkins J R Brazzel C A Wilson

Miss Farm Res 33(5):8

May 1969 100 M69M1

Anthonomus grandis, Beneficial insects, Biological control (insects), Chemical control (insects), Dimethoate, Disulfoton, Fenthion, Fleahoppers, Insecticides, Isopropoxyphenyl methylearbamate, Miridae, Organophosphorus compounds, Trichlorfon.

9369-69

THE ENEMIES OF THE PREDACEOUS MITES AS A REDUCING FACTOR OF SPIDER MITES. (GE)

G Dosse

Entomophaga 7(3):227-236 REF

1962 421 EN835

Anthocoris nemorum, Apples, Biocenosis, Biological control (insects), Chrysopa vulgaris, Mites, Orius minutus, Panonychus ulmi, Predaccous insects, Tetranychidae, Typhlodromus pyri. English summary. report from First Colloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

NEW OR LITTLE KNOWN FEEDING HABITS IN EMPIDIDAE (DIPTERA).

J A Downes S M Smith

Can Entomol 101(4):404-408 REF

Apr 1969 421 C16

Empididae, Food habits, Insect biology, Pollen, Predaceous insects.

THE RECOGNITION OF NULLIPAROUS AND PAROUS CULICOIDES (DIPTERA: PAROUS CULICOIDES (DIPTERA: CERATOPOGONIDAE) WITHOUT DISSEC-TION.

A L Dyce

Entomol Soc Australia (nsw) J 8(1):11-15

30 Jun 1969 423.92 EN84

Color, Culicoides, Insect identification, Insect physiology, Insect rearing, Reproduction.

POST-ECDYSAL SETAL DEVELOPMENT IN THE ALEYRODIDAE (HEMIPTERA).

V F Eastop

Roy Entomol Soc London Proc Ser A Gen Entomol 44(1-3):48 22 Apr 1969 420 L84PA

Aleyrodidae, Insect physiology, Molting (insects).

### **ENTOMOLOGY**

9373-69

9373-69

THE NEURAL CONTROL OF CERCAL GROOMING BEHAVIOUR IN TH COCKROACH, PERIPLANETA AMERICANA.

R C Eaton R D Farley

J Insect Physiol 15(6):1047-1065 REF

Jun 1969 421 J825

Insect behavior, Insect physiology, Nervous system, Periplaneta americana.

9374-69

ON THE ACTION OF BRACON VENOM.

J S Edwards T J Sernka Toxicon 6(4):303-305

May 1969 391.8 T66

Braeon, Galleria mellonella, Inscet respiration, Metamorphosis, Paralysis, Toxicology, Venoms.

9375-69

THE DISTRIBUTION OF BENTHIC INVER-TEBRATES ON SUBSTRATA IN FAST-FLOW-ING STREAMS.

H J Egglishaw

J Anim Ecol 38(1):19-33 REF

Feb 1969 410 J826

Aquatic insects, Habitats, Insect ecology, Insect nutrition, Marine biology, Streams.

9376-69

VITAMIN REQUIREMENTS IN A SIEVE TUBE SUCKING APHID, NEOMYZUS CIRCUMFLEX-US BUCKT. (HOMOPTERA, INSECTA). (GE)

Z Vergleichende Physiol 60(4):416-426 REF

30 Sep 1968 444.8 Z3

Aphididae, Avitaminosis, Insect nutrition, Insect physiology, Insect rearing, Neomyzus eireumflexus, Vitamins. English summary.

9377-69

TAXONOMIC COMPOSITION, TROPHIC STRUCTURE AND SEASONAL OCCURRENCE IN A GRASSLAND INSECT COMMUNITY.

F C Evans W W Murdoch

J Anim Ecol 37(1):259-273 REF

Feb 1968 410 1826

Grassland communities, Insect ecology, Insect nutrition, Insect taxonomy, Surveys.

METHODS TO INVESTIGATE THE POPULA-TION DYNAMICS OF APHIDS AND APHID PARASITES IN ORCHARDS.

H H Evenhuis

Entomophaga 7(3):215-220

1962 421 EN835

Aphelinus mali, Aphididae, Aphis pomi, Dysaphis plantaginea, Eriosoma lanigerum, Inseet popula-Orchards, tions, Methodology, Rhopalosiphum insertum. German summary. report from First Coloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Nether-

9379-69

SEASONAL DISTRIBUTION OF SOME ARTHROPOD PARASITES OF RABBITS IN LOUISIANA.

J E Farlow E C Burns J D Newsom

J Med Entomol 6(2):172-174

May 1969 421 J828

Amblyomma americanum, Cediopsylla simplex, Cuterebra, Dermacentor variabilis, Hacmaphysalis leporispalustris, Rabbits.

9380-69

MORPHOLOGY OF HEMOCYTES RHYNCHOSCIARA ANGELAE NONATO AND PAVAN, 1951 (DIPTERA, MYCETOPHILIDAE). (POR)

M D G Ferri M Tokumaru T U Worsmann

Rev Brasil Biol 28(3):225-234 REF

Sep 1968 442.8 R326

Blood cells, Insect morphology, Insect physiology, Mycetophilidae, Rhynchoseiara. English summary.

9381-69

THE INFLUENCE OF LIGHT AND TEMPERA-TURE ON THE PUPAL EMERGENCE ACTIVITY OF CHIRONOMUS NUDITARSIS STR. (GE) J Fischer S Rosin

Rev Suisse Zool 75(3):538-549 REF

Sep 1968 410 R324

Aquatic insects, Chironomus nuditarsis, Diurnal rhythm, Emergenee, Insect ecology, Insect physiology, Light, Pupae, Temperature, Water. English and French summaries.

NOTABLE INTERGENERIC MATING (LYCAENIDAE).

D Freehin

Lepidopterists Soc J 23(2):115 29 May 1969 421 L554 Lyeaenidac, Sex behavior.

STUDIES ON THE ECOLOGY OF ADULT TIPU-LIDAE (DIPTERA) IN SOUTHERN ENGLAND.

B E Freeman

J Anim Ecol 37(2):339-362 REF

Jun 1968 410 J826

Drying, Imagos, Insect ecology, Population, Tipulidae.

9384-69

OF MIGRATION LAPHYGMA EXIGUA HUBNER (LEPIDOPTERA: NOCTUIDAE) TO THE BRITISH ISLES IN RELATION TO LARGE-SCALE WEATHER SYSTEMS.

R A French

J Anim Ecol 38(1):199-210 MAP REF

Feb 1969 410 J826

Insect migration, Spodoptera exigua, Weather, Zoogeography.

9385-69

PARASITIC CHANGING IN HOSTS AND ITS ECOLOGICAL IMPORTANCE FOR THE PARASITE. (GE)

E Fuhrer

Entomophaga 13(3):241-250

1968 421 EN835

Insect ecology, Insect physiology, Parasitism, Predaeeous insects. English abstract.

INSECT PARASITES OF THE INSECT GALLS IN EUROPE. (GE)

L Fulmek

Beitr Entomol 18(7-8):719-952 REF

1968 421 B392

Colcoptera, Diptera, Gall-making insects, Hymenoptera, Insect taxonomy, Lepidoptera, Parasitic insects, Surveys, Thysanoptera, Zoogeography. English and Russian abstracts.

PARASITIZATION OF WORKER BUMBLE BEES OF MISSISSIPPI BY PHYSOCEPHALA LARVAE.

R Fulton W H Norman

Miss Acad Sci J 13:125

1967 500 M697

Abdomen, Bombus, Larvae, Ovulation, Parasitie insects, Physocephala.

RESEARCH ON THE ECOLOGICAL SYSTEM OF THE FOREST. SERIES B: THE MIXED, CALCICOLOUS OAKS OF VIRELLES-BLAIMONT. CONTRIBUTION NO. 18. BLAIMONT. COLEOPTERA CAUGHT IN 1965 AND 1966. (FR)

C Gaspar

Bull Recherch Agron Gembloux (N s)3(1)76-82 1968 S5.B8

Carabidae, Coleoptera, Forests, Inseet ecology, Inseet taxonomy, Insect traps, Quereus.

9389-69

TESTS ON THE CONTROL OF PRAYS CITRI MILL. BY MEANS OF BACILLUS THURINGIENSIS. (PRELIMINARY REPORT). (IT)

G Giammanco M Militello G Mineo

Palermo Univ Ist Entomol Agr Boll 6,1965/1966:17-27

15 Mar 1967 423.92 PI7

Baeillus thuringiensis, Baeteria, Biological control (insects), Citrus, Insect diseases, Insect pests, Larvae, Mortality, Prays citri, Yponomeutidae. English and French summaries.

THE COCCID SACCHÂRICOCCUS SACCHARI (COCKERELL) (HEMIPTERA PSEUDOCOC-CIDAE) OF SUGAR CANE IN MOZAMBIQUE. (POR)

M L Goncalves

Agron Mocambicana 2(1,JAN-MAR):57-64 REF 1968 S15.A3

Economic entomology, Hemiptera, Insect morphology, Insect pests, Larvae, Nymphs, Pseudococeidae, Saccharicoccus sacchari, Sugarcanc. English and French summaries.

SOME UNUSUAL CELL INCLUSIONS IN THE MID-GUT OF A MOTH BUG, GYARINA NIGRITARSIS KARSCH (HOMOPTERA: FLATIDAE), AND THEIR POSSIBLE SIGNIFICANCE IN NUTRITION.

A J P Goodehild

Roy Entomol Soc London Proc Ser A Gen Entomol 44(1-3):11-16

22 Apr 1969 420 L84PA

Flatidac, Homoptera, Insect histology, Intestines.

NOTES ON PARASITES OF IMMATURE TABANIDAE (DIPTERA) AND DESCRIPTIONS OF THE LARVA AND PUPARIUM OF CARINOSILLUS PRAVUS (DIPTERA: TACHIN-IDAE).

J T Goodwin

Tenn Acad Sci J 43(4):107-109

Oct 1968 500 T25A

Carinosillus pravus, Inscet behavior, Insect morphology, Larvae, Parasitie insects, Pupae, morphology, Larvae, Tabanidae, Taehinidae.

9393-69

ULTRASTRUCTURE OF THE TROPHIC BANDS IN THE OVARIES OF SEVERAL HOMOPTERAN AUCHENORRHYNCHA. (FR)

C Hamon R Folliot

Acad Sci Compt Rend Ser D Sci Nat 268(3, 1ST SEMESTER):577-580

20 Jan 1969 505 P21

Auchenorrhyncha, Cicadellidae, Cicadidae, Inseet eytology, Insect morphology, Ovaries, Ribosomes,

PROPAGATION OF A CERAMBYCID BORER ON A MERIDIC DIET.

K L S Harley B W Willson

Can J Zool 46(6):1265-1266 Nov 1968 470 C16D

Biological control (insects), Ccrambycidae, Insect physiology, Insect rearing, Lantana camara, Larvae, Meridie diets, Plagiohammus spinipennis.

THE APPRAISAL OF DELAYED AND DIRECT DENSITY-INDEPENDENCE.

M P Hassell C B Huffaker

Can Entomol 101(4):353-361

Apr 1969 421 C16 Insect eeology, Models, Population, Statistical

analysis.

9396-69 NOCTURNAL COPULATION OF RHOPALOCERA.

J R Heitzman

Lepidopterists Soc J 23(2):105-106

29 May 1969 421 L554

Butterflies, Inscet behavior, Sex behavior, Timc.

9397-69

POSTEMBRYONIC DEVELOPMENT OF THE POSIEMBRYONIC DEVELOPMENT OF THE MALE AND FEMALE REPRODUCTIVE SYSTEMS OF FRANKLINIELLA FUSCA (HINDS) (THRIPIDAE) AND HAPLOTHRIPS VERBASCI (OSBORN) (PHILAEOTHRIPIDAE) (THYSANOPTERA).

B S Heming

Diss Abstr Sect B 29(3):1052B

Sep 1968 Z5055.U49D53

Frankliniella fusca, Haplothrips verbasci, Insect anatomy, Insect morphology, Philaeothripidae, Reproductive organs, Sex behavior, Sper-matophores, Thripidae.

### 9398-69

LEGAL ASPECTS OF CROP SPRAYING.

J Henderson

Ill Univ Ext Circ (990):8P

Nov 1969 275.29 IL62C

Crops, D, 2,4-, Insecticide residues, Licenses, Phenoxy acid compounds, Poisons, Spraying.

THE COMPARATIVE MORPHOLOGY OF THE DORSAL VESSEL AND ACCESSORY STRUCTURES OF THE LEPIOPTERA AND ITS PHYLOGENETIC IMPLICATIONS.

I H Hessel

Entomol Soc Amer Ann 62(2):353-370 REF

Mar 1969 420 EN82

Dorsal vessel, Insect evolution, Insect morphology, Insect taxonomy, Lepidoptera.

### 9400-69

AN ELECTRON MICROSCOPE STUDY OF THE DIFFRACTION GRATINGS OF CARABID BEETLES.

H E Hinton D F Gibbs

J Insect Physiol 15(6):959-962

Jun 1969 421 J825

Carabidae, Electron microscopy, Insect morphology, Light.

# 9401-69

EFFECT OF MITOMYCIN-C ON THE DEVELOPMENT OF THE EYE-DISKS IN DROSOPHILA MELANOGASTER.

Y Hirose S Kaji

Experientia 25(2):199-200

15 Feb 1969 475 EX7

Autoradiography, Drosophila melanogaster, Eyes, Insect biochemistry, Insect physiology, Mitomycin-C, Morphology.

# 9402-69

THE ACTION OF THE ENDOCRINE SYSTEM AND THE OVARIES ON THE HEMOGRAM OF LOCUSTA MIGRATORIA L. (ORTHOPTERA). THE ROLE OF THE CORPORA CARDIACA. (FR)

J A Hoffmann M Cazal

Acad Sci Compt Rend Ser D Sci Nat 268(16, 1ST SEMESTER):2113-2115

21 Apr 1969 505 P21

Corpora cardiaca, Endocrine glands, Hemograms, Insect biochemistry, Insect physiology, Locusta migratoria, Ovaries, Secretion.

SELECTION FOR GENERATION TIME IN DROSOPHILA MELANOGASTER.

W Hopper W St. Amand

Miss Acad Sci J 13:143

1967 500 M697

Diurnal rhythm, Drosophila melanogaster, Insect mating, Insect physiology, Reproduction, Tem-

THE DIEL PATTERN OF FEEDING ACTIVITY OF LARVAL PSEUDOSARCOPHAGA AFFINIS (DIPTERA: SARCOPHAGIDAE).

H L House

Can Entomol 101(4):409-415 REF

Apr 1969 421 C16

Food habits, Insect behavior, Larvae, Photoperiodism, Pseudosareophaga affinis.

9405-69

SOME ASPECTS OF ASSESSING EFFICIENCY OF NATURAL ENEMIES.

C B Huffaker C E Kennett

Can Entomol 101(4):425-447 REF

Apr 1969 421 C16

Biological control, Insect ecology, Mites, Models, Parasites, Population, Predators, Reviews.

### 9406-69

STUDIES ON LONGEVITY OF ADULT ERETMAPODITES CHRYSOGASTER, AEDES TOGOI AND AEDES (STEGOMYIA) ALBOPIC-TUS FEMALES DIPTERA: CULICIDAE).

A R Hylton

J Med Entomol 6(2):147-149

May 1969 421 J828

Aedes, Culicidae, Insect biology, Longevity.

ENTOMOLOGICAL AND GENERAL BIOLOGICAL INTEREST IN A COMPARATIVE ENDOCRINOLOGY OF SOCIAL INSECTS. (AB-STRACT). (IT)

C Jucci

Accad Naz Ital Entomol Atti 8:23-27

1960 420 AC2

Chromatography, Endocrine glands, Endocrinology, Entomology, Glands (insects), Hormones, Insect biology, Social insects.

ACOUSTIC SIGNALLING AND ITS POSSIBLE RELATIONSHIP TO ASSEMBLING AND NAVIGATION IN THE MOTH, HELIOTHIS ZEA.

R E Kay

J Insect Physiol 15(6):989-1001 REF

Jun 1969 421 J825

Heliothis zea, Insect behavior, Sense organs, Stridulation, Ultrasonic waves.

### 9409-69

INVESTIGATIONS OF THE WING MECHANISM OF DERMAPTERA. (GE)

W Kleinow

Munich Univ Naturwiss Fak (Inaug-Diss) (96):363-416 REF

1965 509 M923

Dermaptera, Forficula auricularia, Insect anatomy, Insect flight, Insect morphology, Labia minora, Wings (insects). English summary.

Reprint from: Zeitschrift fur Morphologie und Okologie der Tiere 56(4):363-416, 1966.

A PHOTOMETRIC TECHNIQUE FOR QUANTITATIVE EVALUATION OF FEEDING PREFERENCES OF PHYTOPHAGOUS IN-

M Kogan R D Goeden

Entomol Soc Amer Ann 62(2):319-322

Mar 1969 420 EN82

Food habits, Methodology, Photometry, Phytophagous insects.

THE INTESTINE OF A HIGHER TERMITE (MICROCEROTERMES EDENTATUS, WASMAN, AMITERMITINAE). HISTOPHYSIOLOGY AND SYMBIOTIC BACTERI-AL FLORA. (FR)

J Kovoor

Bull Biol France Belg 102(1):45-84 REF

1968 473 B87

Baeteria, Histochemistry, Insect anatomy, Insect Insect physiology, Intestines, histology, Microecrotermes edentatus, Termites. English summary.

DESCRIPTION OF NEW SOCIAL PARASITES OF LEPTOTHORAX ACERVORUM F. (FOR-MICIDAE). (GE)

H Kutter

Schweiz Entoniol Ges Mitt 40(1/2):78-91 20 Jul 1967 420 SW6

Formicidae, Insect morphology, Insect mutation, Insect taxonomy, Leptothorax Parasitism, Social insects. acervorum,

THE NEUROSECRETORY CELLS OF THE BRAIN OF AEDES AEGYPTI IN RELATION TO LARVAL MOLT, METAMORPHOSIS AND OVARIAN DEVELOPMENT.

J R Larson A Broadbent

Amer Microscop Soc Trans 87(4):395-410 REF Oct 1968 440.9 AM33

Aedes aegypti, Brain, Insect morphology, Insect physiology, Larvae, Metamorphosis, Molting (insects), Nerves, Neurosecretion.

ON THE WEIGHT DECLINE OF EGGS IN ONE OVIPOSITION BATCH OF BOMBYX MORI. (FR)

J-m Legay L Baud

Acad Sci Compt Rend Ser D Sci Nat 268(6, 1ST SEMESTER):970-973

10 Feb 1969 505 P21

Bombyx mori, Insect eggs, Oviposition, Weight.

REPRODUCTIVE ISOLATION AND SIZE VARIATION IN THE MUSCIDIFURAX RAP-TOR COMPLEX.

E F Legner

Entomol Soc Amer Ann 62(2):382-385 REF

Mar 1969 420 EN82

Insect evolution, Insect physiology, Muscidifurax raptor, Pteromalidae, Sex behavior, Zoogeography.

THE EFFECT OF VARYING THE INITIAL NUMBERS ON THE OUTCOME OF COMPETI-TION BETWEEN TWO TRIBOLIUM SPECIES.

P H Leslie T Park D B Mertz J Anim Ecol 37(1):9-23 REF

Feb 1968 410 J826

Competition, Insect ecology, Insect populations, Tribolium.

BIOLOGICAL OBSERVATIONS ON ZEUZERA PYRINA L. IN SICILY. (LEP. COSSIDAE). (IT) G Liotta I Giuffrida

Palerino Univ Ist Entomol Agr Boll 6,1965/1966:29-60 REF 15 Mar 1967 423.92 P17

Biological control (insects), Ceratonia siliqua, Chemical control (insects), Cossidae, Hymenop-tera, Insect biology, Insect pests, Insecticides, Kaki persimmons, Larvae, Organophosphorus compounds, Parasitic insects, Parathion, Zeuzera pyrina, Zoogeography. English, French and German summaries.

A CONTROL UNIT FOR THE AUTOMATIC OPERATION OF A PORTABLE 115 VOLT 60 CYCLE A.C. POWER PLANT FOR INSECT LIGHT TRAPS.

R B Lowe

Can Entoniol 101(4):422-424

Apr 1969 421 C16

Insect collecting equipment, Light traps.

HISTOLOGICAL DATA ON THE CUTICULAR ACIDIC MUCOPOLYSACCHARIDES ORTHOPTERA. (FR)

R Martoja A-m Cantaeuzene

Acad Sci Compt Rend Ser D Sci Nat 268(4, IST SEMESTER):697-700

27 Jan 1969 505 P21

Cutiele, Inseet histology, Inseet morphology, Orthoptera, Polysaecharides.

### 9420-69

NOTE ON A PARASITIC ASPERGILLUS ON LARVAE OF AMSACTA MOOREI BUTLER. Y K Mathur B L Mathur

China Plant Protect Bull 16(4):66

Aug 1968 464.9 C47

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9421-69

Amsacta moorei, Aspergillus fumigatus, Entomogenous fungi, Insect diseases, Larvae.

0.121.69

PRELIMINARY STUDIES ON THE EFFECTS OF GAMMA IRRADIATION OF EGGS AND ADULTS OF THE SOUTHERN GREEN STINK BUG, NEZARA VIRIDULA (L.).

R Mau W C Mitchell M Anwar

Hawaii Entomol Soc Proc 19(3):415-417

Jun 1967 420 H312

Gamma rays, Imagos, Insect eggs, Insect physiology, Nezara viridula, Radiation.

9422-69

AN OBSERVATION ON THE ILEUM OF THE EUROPEAN CORN BORER, OSTRINIA NUBILALIS.

D G R McLcod W G Graham C L Hannay

J Insect Physiol 15(6):927-929

Jun 1969 421 J825

Electron microscopy, Gastrointestinal system, Insect morphology, Insect physiology, Lysosomes, Ostrinia nubilalis.

Preliminary work with the electron microscope on the ileum of the corn horer has shown that the paraldehyde-fuchsin-positive granules associated with fluorescence are lysosomes.

9423-69

ESTERASE INHIBITION IN MALATHION POISONING IN THE DESERT LOCUST, SCHISTOCERCA GREGARIA FORSKAL.

K N Mehrotra A Phokela P Saxena Indian J Exp Biol 7(2):110-113 REF

Apr 1969 442.8 IN2

Esterases, Insect biochemistry, Insecticides, Malathion, Organophosphorus compounds, Schistocerea gregaria, Toxicology.

9424-69

METABOLISM OF 2,2-DIMETHYL-2,3-DIHYDROBENZOFURANYL-7 NMETHYLCAR-BAMATE (FURADAN) IN PLANTS, INSECTS, AND MAMMALS.

R L Metcalf T R Fukuto C Collins K Borck S A El-Aziz R Munoz 6

J Agr Food Chem 16(2,MAR-APR):300-311 REF 1968 381 J8223

Animal physiology, Aphis gossypii, Bucculatrix thurheriella, Carbamates, Carhofuran, Estigmene acrea, Insect physiology, Insecticides, Metabolism, Mice, Phenols, Plant physiology, Tetranychus cinnaharinus.

9425-69

NEW PREDACEOUS INSECTS OF PRAY CITRI MILL. (CITRUS FLOWER MOTH) FOUND IN SICILY. (IT)

G Mineo

Palermo Univ 1st Entomol Agr Boll 6.1965/1966:1-6

15 Mar 1967 423.92 P17

Balance of nature, Citrus, Hymenoptera, Parasitic insects, Prays citri, Yponomeutidae, Zoogeography. English and French summaries.

9426-69

ON CRYPTOLAEMUS MONTROUZIERI MULS. (MORPHO-BIOLOGICAL OBSERVATIONS). (IT)

G Minco

Palermo Univ 1st Entomol Agr Boll 6,1965/1966:99-143 REF

15 Mar 1967 423.92 P17

Aphididae, Coccinellidae, Cryptolaemus montrouzieri, Insect biology, Insect hreeding, Insect morphology, Potatoes, Pseudoeoccus adonidum, Pseudoeoccus citri, Winter squash, Zoogeography. English and French summaries.

9427-69

FUNCTIONAL CHARACTERISTICS OF THE ALIMENTARY CANAL OF THE COCKROACH, BLABERUS CRANIIFER BURMEISTER. W W D Modder

Ceylon J Sci Biol Sci 7(1/2):1-8 REF

Oct 1967 475 C33

Bacteria, Blaberus craniifer, Blattidac, Carbohydrates, Digestion, Gastrointestinal system, Hydrogen-ion concentration, Microorganisms, Nymphs.

9428-69

THE MODE OF FEEDING IN THE SILVERFISH ACROTELSA COLLARIS (F.) (THYSANURA; LEPISMATIDAE).

W W D Modder

Entomologist (london) 102(1273):129-132

Jun 1969 421 EN8

Acrotelsa collaris, Food habits, Insect behavior, Insect morphology, Lepismatidae, Mouth parts.

9429-69

ARTIFICIAL BIOLOGICAL CONTROL OF THE OLIVE FRUIT FLY (DACUS OLEAE GMEL.) BY MEANS OF OPIUS CONCOLOR SZ. SICULUS MON. ON THE LIPARI ISLANDS (SICILY). JULY-SEPTEMBER 1965. (IT)

S Monastero P Delanoue

Palermo Univ 1st Entomol Agr Boll 6,

1965/1966:61-97 MAP

15 Mar 1967 423.92 P17

Biological control (insects), Ceratitis capitata, Climate, Dacus oleac, Insect dissemination, Insect eggs, Opius concolor, Parasitism, Predaceous insects, Pupae, Tables (data), Zoogeography.

9430-69

ARTIFICIAL BIOLOGICAL CONTROL OF DACUS OLEAE GMEL. BY MEANS OF OPIUS CONCOLOR SZEP. SICULUS MON. (FR)

S Monastero

Palermo Univ 1st Entomol Agr Boll

6,1965/1966:7-16

15 Mar 1967 423.92 P17

Biological control (insects), Dacus oleae, Insect eggs, Opius concolor, Predaceous insects, Zoogeography.

9431-69

A LARGE EXPERIMENT ON ARTIFICIAL BIOLOGICAL CONTROL OF THE OLIVE FRUIT FLY (DACUS OLEAE G.) BY MEANS OF OPIUS C. SZ. SICULUS MON. IN SICILY. (PALERMO JULY-OCTOBER 1966). (IT)

S Monastero P Delanoue

Palermo Univ 1st Entomol Agr Boll 6,1965/1966:145-194 MAP

15 Mar 1967 423.92 P17

Biological control (insects), Dacus oleae, Insect pests, Larvae, Olives, Opius concolor, Parasitic insects, Parasitism, Zoogeography. English and French summaries.

9432-69

THE LABORATORY BREEDING AND EMBRYONIC DEVELOPMENT OF CHORTHIPPUS BRUNNEUS THUNBERG (ORTHOPTERA: ACRIDIDAE).

F Moriarty

Roy Entomol Soc London Proc Ser A Gen Entomol 44(1-3):25-34

22 Apr 1969 420 L84PA

Acrididae, Humidity, Insect biology, Insect cggs, Insect nutrition, Insect rearing, Temperature.

9433-69

LOGARITHMIC REGRESSION AS AN INDEX OF RESPONSES TO POPULATION DENSITY.

R F Morris T Royama

Can Entomol 101(4):361-364

Apr 1969 421 C16

Forest insects, Insect ecology, Mathematical analysis, Models, Parasitism, Population.

9434-69

A QUANTITATIVE STUDY OF FOOD CONSUMPTION AND GROWTH OF PODIS-US.MACULIVENTRIS.(HEMIPTER A: PEN-TATOMIDAE).

M K Mukerji E J LeRoux

Can Entomol 101(4):387-403 REF

Apr 1969 421 C16

Food consumption, Insect hiology, Insect physiology, Podisus maculiventris, Quantitative analysis.

9435-69

ECOLOGICAL OBSERVATIONS ON THE SPECIES SMICROMYRME SEPTENTRIONALIS HFFR. (HYM. MUTILLIDAE). (FR)

C G Nagy

Acta Ent Bohemoslov 65(5):375-378

20 Sep 1968 420 C33

Insect behavior, Insect ecology, Insect taxonomy, Mutillidae, Smicromyrme septentrionalis, Zoogeography. English and Czech summarics

9436-69

COMPARISON OF SYSTEMIC INSECTICIDES BY DIP TREATMENTS FOR CONTROL OF THE COTTONWOOD LEAF BEETLE.

W W Neel

J Econ Entomol 62(1):265-267

17 Fcb 1969 421 J822

Chemical control (insects), Chrysomela scripta, Dipping, Insect pests, Insecticides, Populus deltoides, Saperda calcarata. 8 insecticides were tested.

9437-69

BIOTIC FACTORS INFLUENCING POPULA-TIONS OF DACUS DORSALIS IN HAWAII. I M Newell F H Haramoto

Hawaii Entomol Soc Proc 20(1):81-139

Jun 1968 420 H312

Biological control (insects), Dacus dorsalis, Insect biology, Insect ecology, Insect rearing, Mortality, Population.

9438-69

PSALLUS AMBIGUUS (FALL.) (HETEROPTERA, MIRIDAE), PART II, NUTRITION AND ROLE IN THE BIOCENOSIS OF ORCHARDS. (POL.)

E Niemczyk

Pol Pismo Entomol 38(2):387-416 REF

1968 421 P76

Apples, Biocenosis, Braconidae, Insect physiology, Insect rearing, Larvae, Miridae, Orchards, Predaceous insects, Psallus ambiguus, Temperature. English summary.

9439-69

STIMULATION OF TWO INTERACTING SPECIES OF TRIBOLIUM.

B S Niven

Physiol Zool 42(2):248-255

Apr 1969 410 P56

Insect behavior, Insect rearing, Tribolium castaneum, Tribolium confusum.

9440-69

BIONOMICS OF THE JUNIPER WEBWORM.
G L Nordin J E Appleby

Entomol Soc Amer Ann 62(2):287-292 Mar 1969 420 EN82

Apanteles, Dichomeris marginella, Insect biology, Insect ecology, Itoplectis conquisitor, Juniperus, Natural control (insects).

9441-69

THE DETERMINATION OF LARVAL INSTARS OF THE RICE WEEVIL SITOPHILUS ORYZAE (L.) (COLEOPTERA: CURCULIONIDAE) IN WHEAT.

A E O'Donnell

Ark Acad Sci Proc 21:36-38

1967 500 AR42

Curculionidae, Insect biology, Insect physiology, Larvae, Measurement, Sitophilus oryzae, Wheat.

9442-69

THE BIOLOGY AND MORPHOLOGY OF ERIOPHYES EMARGINATAE, A PRUNUS FINGER GALL MITE, AND NOTES ON E. PRUNIDEMISSAE.

G N Oldfield

Entomol Soc Amer Ann 62(2):269-277

Mar 1969 420 EN82

Eriophyidae, Insect hiology, Insect morphology, Population, Prunus virginiana.

MECHANISMS OF ORIENTATION IN THE LEAF-CUTTER BEE MEGACHILE ROTUNDATA (FABRICIUS).

C E Osgood

Diss Abstr Sect B 29(3):1054B

Sep 1968 Z5055.U49D53

Alfalfa, Attractants, Color, Insect behavior, Insect migration, Megachile rotundata, Pollination, Research.

EXPERIMENTAL STUDIES ON THE REGRESSION OF THE VENTRAL GLANDS OF THE EARWIG, ANISOLABIS MARITIMA, DURING METAMORPHOSIS.

K Ozeki

Tokyo Univ Coll Gen Educ Sci Pap 18(2):199-219 Dec 1968 330.9 T572

Anisolabis, Glands (insects), Insect physiology, Metamorphosis.

9445-69

THE IMPORTANCE OF THE TRANSPLANTA-TION OF FORMICA LUGUBRIS IN ITALY. (IT)

Accad Naz Ital Entomol Atti 8:102-111 MAP 1960 420 AC2

Biological control (insects), Forests, Formica rufa, Formicidae, Insect dissemination, Insect pests, Myrmecocystus lugubris, Population, Zoogeography. French summary.

A POPULATION STUDY OF CIS BILAMEL-LATUS WOOD (COLEOPTERA, CIIDAE).

K Pavior-Smith

J Anim Ecol 37(1):205-228 REF

Feb 1968 410 J826

Cisidae, Habitats, Insect biology, Polyporus hetulinus, Population.

9447-69

ALKYL AND ARYL 4-(METHYLCAR-BAMOYLOXY) CARBANILATES. PATENT 3,450,745.

L K Payne M H J Weiden

Us Patent Office Offic Gaz 863(3):891

17 Jun 1969 156.65 OF2

Carbanilates, Insect pests, Lepidoptera, Patents, Systemic insecticides.

9448-69

ARTHROPOD PREDATORS OF IMMATURE DIPTERA DEVELOPING IN POULTRY DROPPINGS IN NORTHERN CALIFORNIA. PART II. LABORATORY STUDIES ON FEED-ING BEHAVIOR AND PREDATION POTEN-TIAL OF SELECTED SPECIES.

J H Peck

J Med Entomol 6(2):168-171 REF

May 1969 421 J828

Fannia, Histeridae, Insect hehavior, Insect feeding, domestica, Predaceous Musca insects. Staphylinidae.

9449-69

DIAPAUSE AND REPRODUCTION IN NEBRIA BREVICOLLIS (COLEOPTERA: (F.) CARABIDAE).

M M Penney

J Anim Ecol 38(1):219-233 REF

Feb 1969 410 J826

Carabidae, Insect physiology, Population. Reproduction.

9450-69

A STUDY OF THE CASHEW BORER, MECOCO-RYNUS LORIPES CHES. (COLEOPTERA, CUR-CULIONIDAE) 1. THE ANATOMY OF THE PRINCIPAL ORGANS. (POR)

M F V Pinheiro

Agron Mocambicana 2(1,JAN-MAR):47-55

1968 S15.A3

Curculionidae, Insect anatomy, Larvae, Mecocorynus loripes. English and French summaries. to be continued.

9451-69

A LIGHTWEIGHT COLLAPSIBLE BAIT TRAP FOR LEPIDOPTERA.

A P Platt

Lepidopterists Soc J 23(2):97-101

29 May 1969 421 L554

Insect collecting equipment, Insect traps, Lepidoptera, Methodology.

METABOLISM INSECTICIDES. OF MICROSYNTHESIS OF BETADIHYDROHEPTACHCOR.

N H Poonawalla F Korte

J Agr Food Chem 16(1,JAN-FEB):13-14 REF 1968 381 18223

Biochemistry, Carbon isotopes, Dihydrohep-tachlor, beta-, Insecticides, Insects, Mammals, Metaholism, Synthesis.

THE EFFECT OF CULTURAL MEASURES ON THE POPULATION DENSITY OF HARMFUL AND RENEFICIAL OPCOMISMS IN BENEFICIAL ORGANISMS AND ORCHARDS.

A Post

Entomophaga 7(3):257-262

1962 421 EN835

Aphis pomi, Brevipalpus oudemansi, Bryobia rubrioculus, Cultural control (insects), Eotetranychus pomi, Eriosoma lanigerum, Insect populations, Orchards, Panonychus ulmi, Phytophagous mites. German summary. report from First Colloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Nether-

9454-69

FOOD PREFERENCE AS A FACTOR IN DIS-TRIBUTION AND ABUNDA PHOETALIOTES NEBRASCENSIS. ABUNDANCE

K P Pruess

Entomol Soc Amer Ann 62(2):323-327

Mar 1969 420 EN82

Aerididae, Food habits, Insect ecology, Population, Zoogeography.

9455-69

PRELIMINARY OBSERVATIONS ON THE BIOLOGY OF AMBLYSEIUS TARDI LOMB. (ACARINA-PHYTOSEIIDAE) A PREDATOR OF TETRANYCHUS URTICAE KOCH. (IT)

S Ragusa

Palermo Univ Ist Entomol Agr Boll 6,1965/1966:199-206 REF

15 Mar 1967 423.92 P17

Amblyseius tardi, Castorbeans, Experimental insects, Insect biology, Insect rearing, Mites, Phytoseiidae, Predaceous insects, Tetranychus urticae, Zoogeography. English and French summa-

9456-69

FACTOR ANALYSIS AS A MULTIVARIATE STATISTICAL METHOD IN THE STUDY OF THE GROWTH PATTERN OF THE ANTENNAE GERRIS FLUVIORUM F. (HEM. GER-

B Raja Rao M L Garg

Growth 31(4):331-343 REF

Dec 1967 442.8 G91

Antennae, Factor analysis, Gerridae, Growth factors, Insect biology, Insect physiology, Statistical analysis.

9457-69

THE BROWN RECLUSE SPIDER AND LOXOSCELISM IN TENNESSEE.

H B Reed

Tenn Acad Sci J 43(4):110-114 MAP REF

Oct 1968 500 T25A

Human diseases, Insect geography, Insect morphology, Loxosceles reclusa, Surveys, Venoms. Insect

BINOMICS OF ENOCLERUS BARRI (COLEOP-TERA: CLERIDAE).

R E Rice

Can Entomol 101(4):382-386 REF

Apr 1969 421 C16

Cleridae, Insect biology, Insect rearing, Zoogeography.

9459-69

THE FUNDAMENTAL SCHEMA OF OOGENE-SIS IN THE FIREBRAT LEPISMODES INQUILINUS (THYSANURA, LEPISMATIDAE) AND ITS PERIODISATION IN CONNECTION WITH IMAGINAL MOULTING CYCLES.

E B Rohdendorf

Acta Ent Bohemoslov 65(5):341-348 REF

20 Sep 1968 420 C33

Insect biology, Insect physiology, Larvae, Lepismatidae, Lepismodes, Molting (insects), Oogenesis. Czech summary

THE MYOBLASTIC MASSES AND NEURAL TISSUE ASSOCIATED WITH THE PROVEN-TRICULUS OF LARVAE TRISERIATUS, A. AEG OF AEDES TRISERIATUS, A. AEGYPTI, ANOPHELES QUADRIMACULATUS.

W S Romoser C E Venard

Entomol Soc Amer Ann 62(2):345-348

Mar 1969 420 EN82

Acdes aegypti, Acdes triscriatus, Anopheles quadrimaculatus, Head, Insect histology, Insect morphology, Larvac, Museles, Nervous system.

ON THE TRANSPLANTATION OF ANTS OF THE GROUP FORMICA RUFA IN ITALY. (IT)

G Ronchetti

Accad Naz Ital Entomol Atti 8:218-227

1960 420 AC2

Biological control (insects), Formica rufa, Formicidae, Insect dissemination, Myrmecocystus lugubris, Population, Predaccous insects, Zoogcography. French summary.

AN EPIZOOTIC OF SERRATIA MARCESCENS (ENTEROBACTERIACEAE) IN PERIPLANETA FULIGINOSA (BLATTARIA) AND A SUG-GESTED METHOD FOR CONTROL.

M E Rueger T A Olson J Med Entomol 6(2):191

May 1969 421 J828

Drug therapy, Insect diseases, Periplaneta fuliginosa, Serratia marcescens, Zephiran chloride.

RECENTLY INTRODUCED BEETLES IN THE PACIFIC NORTHWEST.

L. Russell

Coleopt Bull 22(2):62-63

Jun 1968 421 C674

Coleoptera, Insect outbreaks, Zoogeography. Lists: Bembidion lampros, Rugilus rufipes, Sepedophilus testaceum, Coccinella undecimpunetata undecimpunetata, Aphodius haemorrhoidalis, and Apion longirostre.

9464-69

IRIDIUM-192 AS A TAG FOR CARPENTER ANTS OF THE GENUS CAMPONOTUS (HYMENOPTERA: FORMICIDAE).

C J Sanders W F Baldwin Can Entomol 101(4):416-422 REF

Apr 1969 421 C16

Camponotus, Formicidae, Insect nests, Maps, Radioactive tracers.

HORMONAL CONTROL OF TURNOVER OF TYROSINE AND TYROSINE AND TYROSINE PHOSPHATE DURING TANNING OF THE ADULT CUTICLE IN THE FLY, SARCOPHAGA BULLATA.

M Seligman S Friedman G Fraenkel

J Insect Physiol 15(6):1085-1101 REF

Jun 1969 421 J825

Cutiele, Hormones, Insect biochemistry, Insect physiology, Radioactive tracers, Sarcophaga bullata, Tannins, Tyrosine.

9466-69

A COMPARISON OF THE EFFECT OF DIAZINON, CHLORFENVINPHOS AND OF BAYER 37289 AGAINST THE CABBAGE FLY. (FR)

E Seutin A J Plasman P H Martens Bull Recherch Agron Gembloux (N s)3(1):190-

195 1968 S5.B8

Chemical control (insects), Chlorfenvinphos, Chortophila brassicae, Diazinon, Ethyl O-2,4,5trichlorophenyl ethylphosphonothioate, O-, Insecticides, Pesticide residues.

9467-69

TOXICITY AND EFFECTS ON MOTOR COOR-DINATION OF SOME NEUROTROPIC DRUGS COCKROACH NAUPHOETA THE CINEREA.

G F Shambaugh

Entomol Soc Amer Ann 62(2):370-375 REF

Mar 1969 420 EN82

Drugs, Insect behavior, Insect physiology, Nauphoeta cincrea, Toxicity, Toxicology.

THE ASSAY OF GONADOTROPIC EFFECT OF JUVENILE HORMONE ON AEDES AEGYPTI OVARIES.

B R Shivers W H Norman

Miss Acad Sci J 13:142

1967 500 M697

Aedes aegypti, Assay, Diet, Gonadotropins, Hormones, Insect physiology, Ovaries.

MATERIALS FOR IDENTIFICATION OF PARASITES OF SOME NOXIOUS FOREST IN-SECTS. (POL)

Z Sierpinski

Pol Pismo Entornol 38(2):429-439

1968 421 P76

Braconidae, Chalcidoidea, Cynipoidea, Forests, Ichneumonidae, Insect identification, Insect pests, Nomenclature, Parasitic insects, Tachinidae. English summary. The author presents a list of parasites belonging to each species.

REMARKS ON THE MORPHOLOGY OF SOME RARE PALEARCTIC OPILONIDS (OPILIO-NIDEA). (GE)

V Silhavy

Acta Ent Bohemoslov 65(5):397-398

20 Scp 1968 420 C33

Insect morphology, Palearctic Region, Phalangida. English and Czeeh summaries.

9471-69

A METHOD FOR MASS COLLECTION OF WASP VENOMS.

R P Simon A W Benton

Entomol Soc Amer Ann 62(2):277-278

Mar 1969 420 EN82

Hymenoptera, Methodology, Venoms.

9472-69

THE EFFECT OF TWO HOST SPECIES ON THE LONGEVITY AND FERTILITY OF NASONIA VITRIPENNIS.

G J C Smith D Pimentel

Entomol Soc Amer Ann 62(2):305-308 REF

Mar 1969 420 EN82

Fertility, Longevity, Musca domestica, Nasonia vitripennis, Parasitic insects, Phaenicia sericata, Population, Pteromalidae.

THE PATTERN OF PTERIDINE ACCUMULA-TION IN EGGS OF PYRRHOCORIS APTERUS.

R L Smith H S Forrest J Insect Physiol 15(6):953-957

Jun 1969 421 J825

Insect biochemistry, Insect eggs, Insect physiology, Pteridine, Pyrrhocoris apterus.

The pteridines occurring in the eggs of the bug

Pyrrhocoris apterus are erythropterin, isoxanthopterin, violapterin, chrysopterin, and a new compound which appears to be a 6-substituted derivative of violapterin. The changing content of all of these compounds with development has been determined. There are no simple precursorproduct relationships among them.

9474-69

FEEDING RESPONSES TO SOUND WOOD BY THE EASTERN SUBTERRANEAN TERMITE, RETICULITERMES FLAVIPES.

R V Smythe F L Carter

Entomol Soc Amer Ann 62(2):335-337

Mar 1969 420 EN82

Food habits, Insect behavior, Reticulitermes flavipes, Termites, Wood.

CYCLIC CYCLIC OVARIOLE CHANGES IN ANOPHELES FARAUTI LAVERAN (DIPTERA: CULICIDAE) IN PAPUA-NEW GUINEA.

M Spencer S H Christian

Entomol Soc Australia (nsw) J 8(1):16-20

30 Jun 1969 423.92 EN84

Anopheles, Insect behavior, Insect physiology, Ovaries, Reproduction.

The ovariole picture seen on dissection of exit window-trapped, fed Anopheles farauti females differed in three areas of Papua-New Guinea. The differences are described and explained. The contraetion of the pedicels after oviposition is independent of development of the oocytes after feeding; the condition of pedicels and oocytes on dissection can give clues to the behaviour patterns and house-resting habits of this species in different areas of its distribution.

ASPECTS OF THE RELATIONSHIP BETWEEN BURYING BEETLES, NECROPHORUS SSP. AND THE MITE, POECILOCHIRUS AND POECILOCHIRUS NECROPHORI VITZ.

**B** P Springett

J Anim Ecol 37(2):417-424 REF

Jun 1968 410 J826

Aearina, Insect eeology, Predaceous insects, Silphidae, Surveys.

THE IMPORTANCE OF THE INDIFFERENT ARTHROPODS IN FRUIT ORCHARDS. (GE)

H Steiner

Entomophaga 7(3):263-267

1962 421 EN835

Apples, Arthropoda, Fruit culture, Insect populations. English summary discussion of arthropods which are neither beneficial nor noxious.

NOTES ON THE BIOLOGY AND HOSTPLANT ASSOCIATIONS OF ORNITHOPTERA PRIAMUS URVILLEANUS AND O. VICTORIAE (PAPILIONIDAE).

R Straatman

Lepidopterists Soc J 23(2):69-76 MAP

29 May 1969 421 L554

Food habits, Insect behavior, Insect biology, Oviposition, Papilionidae, Plants.

STUDY OF A BITING MIDGE, FORCIPOMYIA (LASIOHELEA) TAIWANA (SHIRAKI) (DIP-TERA: CERATOPOGONIDAE)I. DESCRIPTION OF THE COMPLETE LIFE CYCLE OF THE MIDGE REARED IN THE LABORATORY. W K C Sun

Tunghai Univ Coll Sci Dept Biol Biol Bull 29:10P REF

Apr 1967 442.9 T83

Ceratopogonidae, Experimental insects, Forcipomyia taiwana, Humidity, Insect anatomy, Insect biology, Insect collecting equipment, Insect eggs, Larvae, Serum, Temperature. Chinese summary.

9480-69

SOME FACTORS INFLUENCING REPRODUCTION AND LONGEVITY OF COC- CINELLA SEPTEMPUNCTATA (COLEOPTERA: COCCINELLIDAE). SEPTEMPUNCTATA LINNAEUS

R A Sundby

Entomophaga 13(3):197-202

1968 421 EN835

Coccinella septempunctata, Insect biology, Insect nutrition, Longevity, Reproduction.

FEEDING RESPONSE OF LEPOMIS CYANEL-LUS TO BLISTER BEETLES (MELOIDAE).

R J Tafanelli J C Bass

Southwest Natur 13(1):51-54

28 May 1968 409.6 SO8

Fish, Food preferences, Lepomis, Meloidae, Tettigoniidae.

9482-69

COMPARATIVE RESPONSE OF TWO STRAINS OF CALIFORNIA RED SCALE, AONIDIELLA AURANTII, MALES TO PHEROMONE EXTRACT AND TO FEMALES OF THE RECIPRO-CAL STRAIN.

H Tashiro J B Beavers D Moreno

Entomol Soc Amer Ann 62(2):279-280

Mar 1969 420 EN82

Aonidiella aurantii, Insect behavior, Pheromones, Sex behavior.

DIAPAUSE IN CHRYSOPA CARNEA (NEUROP-TERA: CHRYSOPIDAE. I. EFFECT OF PHOTOPERIOD ON REPRODUCTIVITY AC-TIVE ADULTS.

M J Tauber C A Tauber

Can Entoinol 101(4):364-370

Apr 1969 421 C16

Chrysopa carnea, physiology, Photoperiodism, Reproduction.

BIOCHEMICAL AND PHYSIOLOGICAL STU-BIOCHEMICAL AND PHISIOLOGICAL OF DIES OF CERTAIN TICKS (IXODOIDEA). EXPERIMENTAL FEEDING OF ARGAS (PERSICARGAS) ARBOREUS KAISER, HOOGSTRAAL AND KOHLS (AREASIDAE) STRAAL AND KOH THROUGH MEMBRANES.

M S Tawfik S S Guirgis

J Med Entomol 6(2):191-195 REF

May 1969 421 J828

Argasidae, Insect nutrition, Insect rearing, Ixodoidea, Molting (insects).

WING COLORATION OF DENDROTHRIPS OR-NATUS (JABLONOWSKI). (GE

E Titschack

Hamburg Ver Naturwiss Heimatforsch Verhanol 37:17-28 REF

15 Mar 1967 509 H17V

Bibliography, Color, Dendrothrips ornatus, Insect identification, Insect names, Insect nutrition, Insect Thysanoptera, Wings (insects), taxonomy, Zoogeography.

9486-69

LABORATORY REARING OF PEPPER WEEVILS ON ARTIFICIAL DIETS.

H H Toba A N Kishaba R Pangaldan S Riggs J Econ Entornol 62(1):257-258

17 Feb 1969 421 J822

Anthonomus eugenii, Anthonomus grandis, Diet, Insect nutrition, Insect pests, Insect physiology, Insect rearing, Redpeppers (vegetable).

INFLUENCE BY MITOMYCIN ON THE BRIS-TLE DIFFERENTIATION AND PATTERN STRUCTURE IN DROSPHILA DROSPHILA MELANOGASTER. (GE)

H Tobler

Experientia 25(2):213-214

15 Feb 1969 475 EX7

Drosophila melanogaster, Insect morphology, Mitomycin-C, Morphology. English abstract

CAUSES OF THE VARIED BEHAVIOR OF THE BLACK BARK BEETLE OF OLIVES (HYLESINUS OLEIPERDA FABR.) IN DAL-MATIA. (SE)

A Tominic

Zastita Bilja 18(93/95):75-83

1967 464.8 Z1

Chemical control (insects), Climate, Hylesinus oleiperda, Insect behavior, Insect ecology, Insect nutrition, Insect pests, Insecticides, Olives, Parasitism. French summary.

9489-69

ESTIMATED FOOD CONSUMPTION BY THE COLORADO BEETLE (LEPTINOTARSA DECEMLINEATA SAY) UNDER CONDITIONS OF NATURAL REDUCTION.

P Trojan

Ekol Pol Ser A (SER A)16(18):385-394

1968 512 W263

Food consumption, Insect ecology, Insect pests, Leptinotarsa decemlineata, Potatoes. Polish summary

AN IMPROVED CAGE FOR THE MASS REAR-ING OF THE TRICHOGRAMMA EGG PARASITES (HYMENOPTERA, CHALCI-DOIDEA). (GE)

H Ulrich

Entomophaga 13(3):233-236

1968 421 EN835

Insect rearing, Laboratory equipment, Methodology, Trichogramma. English abstract.

SOME CONSEQUENCES OF IRRADIATING THE GYPSY MOTH EGGS WITH RADIOAC-TIVE COBALT 60. (SE)

L Vasiljevie M Injae

Zastita Bilja 18(93/95):55-65 REF

1967 464.8 Z1

Cobalt isotopes, Dosage, Insect diseases, Insect eggs, Irradiation, Polyhedroses, Porthetria dispar, Radioactivity, Viruses. English summary.

THE COCKROACH INTEGUMENT: PAS-POSITIVE GRANULES AND THEIR POSSIBLE RELATIONSHIP WITH PHENOL STORAGE.

J M Viles R R Mills

J Insect Physiol 15(6):1079-1083 REF

Jun 1969 421 J825

Cuticle, Insect hiochemistry, Insect histology, Periplaneta americana, Phenols.

9493-69

BIOLOGY AND MORPHOLOGY OF GRAPHOSOMA SEMIPUNCTATA FABRICIUS, (HETEROPTERA, PENTATOMIDAE). (FR)

J Vofecle

Awamia (20):43-101 REF

Jul 1968 24 AW1

Graphosoma semipunctata, Heteroptera, Insect biology, Insect eggs, Insect morphology, Insect rearing, Parasitism, Pentatomidae, Zoogeography. English, Spanish and Arabic summaries. description of 9 new forms and of 30 parasites is included.

THE INFLUENCE OF NUTRITION ON THE FERTILITY AND LONGEVITY OF THE BEAN WEEVIL (ACANTHOSCELIDES OBTECTUS SAY). (SE)

P Voukassovitch S Glumac

Zastita Bilja 18(93/95):11-20

1967 464.8 Z1

Acanthoscelides obteetus, Beans, Fertility, Glucose, Honey, Insect eggs, Insect nutrition, Insect physiology, Longevity, Water. French summary.

POPULATION STUDIES ON TWO SPECIES OF PSYLLIDAE (HOMOPTERA, STERNOR-HYNCHA) ON BROOM (SAROTHAMNUS SCOPARIUS (L.) WIMMER). R H Watmough

J Anim Ecol 37(2):283-314 REF

Jun 1968 410 J826

Cytisus, Mortality, Population, Predaceous insects, Psyllidae, Surveys.

LIFE HISTORY AND HABITS OF THE SHORT-TAILED CRICKET, ANUROGRYLLUS MUTICUS IN CENTRAL LOUISIANA.

J E Weaver R A Sommers

Entomol Soc Amer Ann 62(2):337-342

Mar 1969 420 EN82

Gryllidae, Insect behavior, Insect biology, Insect morphology

THE USE OF MUSHROOM ENZYMES FOR SOFTENING INSECT CUTICLE.

M Weinstock F J D McDonald Entomol Soc Australia (nsw) J 8(1):115-116

30 Jun 1969 423.92 EN84

Cuticle, Enzymes, Insect physiology, Mushrooms.

BIOLOGY OF CHEILONEVRUS NOXIUS, WITH EMPHASIS ON HOST RELATIONSHIPS AND OVIPOSITION BEHAVIOR.

R M Weseloh

Entomol Soc Amer Ann 62(2):299-305 REF Mar 1969 420 EN82

Coccoidea, Encyrtidae, Food habits, Insect behavior, Insect biology, Parasitic insects, Sex

9499-69

LIFE HISTORY AND PREDATORY IMPORTANCE OF THE STRIPED LYNX SPIDER (ARANEIDA: OXYOPIDAE).

W H Whiteomb R Eason Ark Acad Sci Proc 21:54-58

1967 500 AR42

Beneficial insects, Insect biology, Oxyopes salticus, Oxyopidae, Predaceous insects.

POLYMORPHISM OF PHILAENUS MARIUS (L.) (HOMOPTERA, CERCOPIDAE) IN ENGLAND.

J.B. Whittaker

J Anim Ecol 37(1):99-111 REF

Feb 1968 410 J826

Ccrcopidae, Color, Philacnus spumarius, Polymorphism, Population.

THE BIOLOGY OF PIPUNCULIDAE (DIPTERA) PARASITISING SOME BRITISH CERCOPIDAE (HOMOPTERA).

J B Whittaker

Roy Entomol Soc London Proc Ser A Gen Entomol 44(1-3):17-24 REF

22 Apr 1969 420 L84PA

Ccreopidae, Insect biology, Parasitic insects, Pipunculidae, Zoogeography.

THE ENDOCRINE CONTROL OF PROTEIN METABOLISM AS RELATED TO REPRODUCTION IN THE FLESHFLY SARCOPHAGA BUL-LATA.

J L Wilkens

J Insect Physiol 15(6):1015-1024 REF

Jun 1969 421 J825

Insect metabolism, Proteins, Reproduction, Sarcophaga bullata.

THE NYMPHAL LIABIAL GLAND OF DAM-SELFLIES (ZYGOPTERA; ODONATA).

R L Willey

Amer Microscop Soc Trans 88(3):370-379 REF Jul 1969 440.9 AM33

Insect histology, Insect morphology, Odonata, Salivary glands (insects).

9504-69

THE SPIRACULAR MORPHOLOGY OF THE HAWAIIAN DAMSELFLY MEGALAGRION BLACKBURNI (ODONATA). R L Willey

Hawaii Entomol Soc Proc 20(1):213-237 REF

Jun 1968 420 H312

Electron microscopy, Insect morphology, Odonata, Spiracles.

CELLULOLYTIC ENZYME SYSTEM TRICHODERMA KONINGII; SEPARATION OF COMPONENTS ATTACKING NATIVE COT-

T M Wood

Biochem J 109(2):217-227 REF

Sep 1968 382 B52

Assay, Biochemistry, Cellulose, Cotton, Culture media, Enzymes, Fibers, Insect pests, Trichoderma koningii. Proceeding from 483rd meeting Biochemical Society held on June 20-22 at Univ. Coll. of North Wales, Bangor.

9506-69

ABUNDANCE AND HABITAT OF FIVE SPECIES OF COCKROACHES ON A PERMANENT MILITARY BASE.

C G Wright H C McDaniel

J Econ Entomol 62(1):277-278

17 Feb 1969 421 J822

Blatta orientalis, Blattella germanica, Habitats, Insect behavior, Pcriplaneta americana, Periplaneta fuliginosa, Supclia supellectilium, Surveys, Zoogeography.

9507-69

PHOTOPERIODIE INDUCTION OF DIAPAUSE IN LARVAE OF THE WINTER TICK, DERMACENTOR ALBIPICTUS.

J Wright

Entomol Soc Amer Ann 62(2):285-287 REF

Mar 1969 420 EN82

Dermacentor albipictus, Insect physiology, Insect rearing, Larvae, Photoperiodism.

STUDIES ON NICOTINOIDS AS AN INSECTI-CIDE. PART VII. CHOLINESTERASE INHIBI-TION BY NICOTINOIDS AND PYRIDYLAL-KYLAMINES--ITS SIGNIFICANCE TO MODE OF ACTION.

1 Yamamoto Y Socda H Kamimura R Yamamoto Agr Biol Chem 32(11):1341-1348

Nov 1968 385 AG8B

Chemical control (insects), Cholinesterases, Enzymes, Insect physiology, Insecticides, Ionization, lons, Musca domestica, Pyridine compounds, Toxicity, Toxins.

9509-69

THE SOLAR-DAY ACTIVITY RHYTHM OF MYRMELEONTID LARVAE.

G J Youthed V C Moran

J Insect Physiol 15(6):1103-1116 REF

Jun 1969 421 J825

Diurnal rhythm, Insect behavior, Larvae, Myrmeleontidae.

# **GENETICS**

CORRELATIONS BETWEEN EGG PRODUC-TION AND CHROMOSOMAL- REGIONS IN DROSOPHILA MELANOGASTER.

W Chapco

Can J Genet Cytol 10(4):951-960 REF

Dec 1968 443.8 C16 Chromosomes, Drosophila melanogaster, Insect eggs, Insect genetics, Insect rearing.

THE EFFECT OF TEMPERATURE ON THE NUMBER OF EGGS DEPOSITED AND ON THE PRODUCTION OF HATCHING LARVAE VERSENE-TREATED DROSOPH DROSOPHILA MELANOGASTER. (RUS)

N B Christoliubova Z S Nikoro Genetika 4(9):40-46 REF 1968 QH431.A1G4

Cells, Chromosomes, Drosophila melanogaster, Ethylenediaminetetraacetic acid, Insect eggs, Insect geneties, Insect physiology, Larvae, Salivary glands (insects), Temperature, Variance analysis. English summary.

DROSOPHILA MELANOGASTER TREATED WITH LSD: ABSENCE OF MUTATION AND CHROMOSOME BREAKAGE.

D Grace E A Carlson P Goodman Science 161(3842):694-696 REF

16 Aug 1968 470 SC12

Chromosomes, Drosophila melanogaster, Insect genetics, Insect mutation, Insect rearing, LSD, Mutagens, Sex determination.

A DROSOPHILA STOCK USEFUL FOR SIMUL-TANEOUS SCORING OF SEX-LINKED AND AUTOSOMAL RECESSIVE LETHALS.

P C Kesavan

Indian J Genet Plant Breeding 27(2):302-304 Jul 1967 64.8 IN2

Chromosomes, Drosophila, Insect genetics.

9514-69

CYTOGENETICS OF TICKS (ACARI: IXI-DOIDEA). 5. COMPARATIVE SURVIVAL OF THREE SPECIES OF DERMACENTOR (IXODIDAE) FOLLOWING ETHERIZATION.

J H Oliver A Z Al-Ahmadi

J Med Entomol 6(2):216-218

May 1969 421 J828

Cytogenetics, Dermacentor, Ethyl ether, Ixodidae, Mortality.

9515-69

THE ROLE OF THE AMPHINUCLEOLUS IN MEIOSIS AND POLE PLASM DEVELOPMENT OF AEDES AEGYPTI.

R Scales W H Norman

Miss Acad Sci J 13:142-143

1967 500 M697

Aedes aegypti, Chromosomes, Cytoplasm, Deoxyribonucleic acid, Insect genetics, morphology, Meiosis, Nucleic acids, Ovaries.

A CHROMOSOME STUDY ON BISEXUAL AND PARTHENOGENETIC RACES OF SCEPTICUS INSULARIS ROELOFS (CURCULIONIDAE: COLEOPTERA).

Y Takenouchi

Can J Genet Cytol 10(4):945-950 MAP REF Dec 1968 443.8 C16

Chromosomes, Curculionidae, Inseet genetics, Insect rearing, Parthenogenesis, Scepticus insularis.

A CHIASMATE SEX QUADRIVALENT IN THE MALE OF AN ALTICID BEETLE, CYRSYLUS VOLKAMERIAE (F.).

N Virkki

Can J Genet Cytol 10(4):898-907 REF

Dec 1968 443.8 C16

Alticinae, Chromosomes, Chrysomelidae, Cyrsylus volkameriae, Insect genetics, Insect rearing, Sex determination, Volkameria aeuleata, Zoogeography.

# MEDICAL ENTOMOLOGY

9518-69

ON THE INEFFICIENCY OF TRANSMISSION OF WUCHERERIA BANCROFTI FROM MOSQUITO TO HUMAN HOST.

N G Hairston B De Meillon

World Health Organ Bull 38(6):935-941 REF 1968 449.9 W892B

Culex pipiens quinquefasciatus, Epidemiology, Human diseases, Insect vectors, Microfilarial infestations, Nematodes, Parasitism, Wuchereria banerofti. French summary.

9519-69

PARASITOLOGICAL AND CLINICAL INVESTIGATIONS ON INFECTIONS WITH THE VS ROMANIAN STRAIN OF PLASMODIUM MALARIAE TRANSMITTED BY ANOPHELES LABRANCHIAE ATROPARVUS.

G Lupascu P Constantinescu E Negulici P G Shute M E Maryon

World Health Organ Bull 38(1):61-67 REF 1968 449.9 W892B

Anopheles labranchiae atroparvus, Culicidae, Human diseases, Insect vectors, Malaria, Plasmodium, Plasmodium malariae. French summary.

ARTIFICIAL FEEDING OF SIMULIUM VEC-TORS OF HUMAN AND BOVINE ONCHOCER-CIASIS.

J P McMahon

World Health Organ Bull 38(6):957-966 1968 449.9 W892B

Cattle, Experimental insects, Feeding, Human dis-

eases, Humidity, Insect vectors, Light, Livestock diseases, Onchocerca volvulus, Onchocerciasis, Simulium, Temperature. French summary.

9521-69

EFFECTS OF ULTRA-LOW VOLUME APPLI-CATIONS OF MALATHION IN HALE COUNTY, TEXAS. I. WESTERN ENCEPHALITIS VIRUS ACTIVITY IN TREATED AND UNTREATED TOWNS.

C J Mitchell R O Hayes P Holden H R Hill T B Hughes

J Med Entomol 6(2):155-162 REF

May 1969 421 J828

Insecticides. Culex tarsalis, Insect vectors, Malathion, Organophosphorus compounds, Western equine encephalomyelitis.

STUDIES ON THE YELLOW FEVER IN ETHIOPIA. 4. ENTOMOLOGICAL RESEARCH AT THE MANERA STATION. (FR)

P Neri C Serie L Andral A Poirier

World Health Organ Bull 38(6):863-872 MAP 1968 449.9 W892B

Culicidae, Epidemiology, Human diseases, Insect vectors, Tables (data), Yellow fever. English summary.

The following mosquitoes were found: Aedes simpsoni, A. africanus, A. aegypti, A. luteocephaluus, A. furcifer, and Eretmapodites.

PROGRESS REPORT OF LOW-VOLUME AERI-AL SPRAY TESTS AGAINST ADULTS OF AEDES TAENIORHYNCHUS (WEID.) AND CULEX NIGRIPALPUS THEOB.

C B Rathburn A H Boike A J Rogers Fla Anti-mosquito Ass Rep 39:26-32

1968 420 F663

Aedes taeniorhynchus, Chemical control (insects), Imagos, Insect pests, Insecticide application, Insec-Magnesium oxide, Naled, ticides. ganophosphorus compounds, Spraying.

9524-69

STUDIES ON YELLOW FEVER IN ETHIOPIA. 5. ISOLATION OF VIRUS STRAINS FROM ARTHROPOD VECTORS. (FR)

C Serie L Andral J Casals M C Williams P Bres P Neri

World Health Organ Bull 38(6):873-877 1968 449.9 W892B

Aedes africanus, Aedes dentatus, Culex, Eretmapodites, Human diseases, Insect vectors, Yellow fever, Yellow fever virus. English summary.

## CROP PROTECTION

9525-69

IDENTITY OF SPOROPOLLENIN WITH OLDER KEROGEN AND NEW EVIDENCE FOR

THE POSSIBLE BIOLOGICAL SOURCE OF CHEMICALS IN SEDIMENTARY ROCKS.

J Brooks G Shaw

Nature 220(5168):678-679 REF

16 Nov 1968 472 N21

Biochemistry, Geological surveying, Kerogens, Morphology, Organie compounds, Plants, Sedimentary rocks, Sporopollenins.

ANNUAL REPORT, FISCAL YEAR 1967-1968. Dep Forestry Rural Develop Rep 1967-1968, 64P 1968 HD1781.C3

Forest insects, Surveys, Tree diseases. French text, 71 p., on reverse. includes forest entomology, pathology, and pest surveys.

TURFGRASS RESEARCH BY THE CALIFOR-NIA AGRICULTURE EXTENSION SERVICE. W B Davis

Pest Contr Oper News 27(10-11,OCT-NOV):36 1967 SB951.A1P4

Grasses, Irrigation, Plant adaptation, Plant disease control, Research, Soil management, Turf, Weed control. The article is to be continued next month

WEATHER, DEVELOPMENT OF VINES, DIS-EASES, PESTS AND DAMAGES IN THE WINE-GROWING AREAS OF THE FEDERAL REPUBLIC OF GERMANY IN 1967. (GE)

W Gartel M Hering

Weinberg Keller 15(5):229-262

May 1968 95.8 W435

Crop losses, Grape vineyards, Plant diseases, Plant injuries, Plant morphology, Plant pests, Tables (data), Virus diseases (plants), Weather. Disussion of many pests and diseases.

9529-69

PLANT PROTECTION UNDER STRICT CON-TROLS. (GE)

E Gersdorf

Prakt Schadlingsbekampfer 20(4):67-68

May 1967 421 P882

Food analysis, Legislation, Pest control, Pesticides. Plant protection, Public health, Toxicity, Vegeta-

9530-69

THE ECONOMIC AND HORTICULTURAL ASPECTS OF GROWING MACADAMIA NUTS COMMERCIALLY IN HAWAII.

J T Keeler E T Fukunaga

Hawaii Agr Exp Sta Agr Econ Bull (27):47P Jun 1968 280.9 H312

Agricultural production economics, Chemical control (weeds), Chlorinated hydrocarbons, Cultural control (weeds), Herbicides, Nuts, Phenoxy acid compounds.

The following herbieides are discussed: aromatic oil, pentachlorophenol, paraquat, 2,4,5-T, 2,4-D, dalapon, diuron, atrazine, and simazine.

OCCURRENCE AND DISTRIBUTION OF DIS-EASES AND PESTS OF RICE AND THEIR CON-TROL IN THAILAND.

T H King

China Plant Protect Bull 16(3):41-45

Jun 1968 464.9 C47

Bacterial diseases (plants), Fungus diseases (plants), Insect control, Pest control, Plant nematodes, Rice, Surveys, Virus diseases (plants), Weeds.

9532-69

TOLERANCES AND EXEMPTIONS TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. O,O-DIETHYL O-(2-ISOPROPYL-4-METHYL-6-PYRIMIDINYL) PHOSPHOROTHIOATE.

Fed Regist 34(40):3623-3624 28 Feb 1969 L1.451

Agricultural products, Chemicals, Diazinon, Organophosphorus compounds, Pesticide residues, Pesticides, Raw materials, Regulation (pesticides), Tolerances.

ABOUT ASSUMPTIONS OF THE COMPLEX-CENTER BIOLOGICAL METHOD OF FOREST PROTECTION. (POL)

W Kochler

Sylwan 112(7):43-51

1968 99.8 SY52

Biological control (insects), Environment, Forest conservation, Forest management, Methodology.

MISSISSIPPI HYBRID CORN PERFORMANCE TESTS, 1968.

LR Nelson G E Scott

Miss Agr Exp Sta Bull (769):11P MAP Jan 1969 100 M69 (I)

Corn, Crop yields, Fertilizers, Harvesting, Tables (data).

9535-69

FABABEANS, A NEW CROP FOR MINNESOTA

R G Rohinson

Minn Agr Exp Sta Misc Rep (83):8P

Dec 1968 100 M66 (2)

Broadbeans, Crop varieties, Food plants, Insect control, Insect pests, Weed control.

ACCLIMATION OF PROSPALTELLA PER-NICIOSI TOW. IN YUGOSLAVIA. (SE) M Tadic

Zastita Bilja 18(93/95):147-154 MAP

1967 464.8 Z1

Aspidiotus perniciosus, Insect rearing, Plant protection, Prospaltella perniciosi, Pumpkins. English summary.

HORTICULTURAL HANDBOOK.

J C Templer et. al.

Kenya Hort Handb 1:190P REF

1966 SB187.K4K4

Chemical control (insects), Dairy equipment, Dusting, Handbooks, Horticulture, Insect pests, Insecticides, Plant diseases, Plant injuries, Plant nematodes, Spraying, Weeds.

# **DISEASES**

9538-69

ADVANCES IN MORPHOGENESIS. (MORPHOGENESIS OF CROWN GALL, BY S. KUPILA-AHVENNIEMI).

M Ahercrombie J Braehet T J King S Kupila-Ahvenniem:

Advances Morphogenesis 7:342P REF 1968 450 AD9

Agrohacterium tumefaciens, Baeterial diseases (plants), Crown galls, Plant histology.

9539-69

INFLUENCE OF BOTRYTIS CINEREA INFEC-TION ON RIBOSOMAL PROPERTIES AND FUNCTIONS IN CABBAGE TISSUES.

V A Aksenova B A Ruhin R V Savehenko A I Brynza

Acad Sci U Ssr Dokl Bot Sci 178(JAN-FEB):9-12 REF

1968 511 P444AE

Botrytis cinerea, Cabhage, Ceratocystis fimhriata, Fungus diseases (plants), Parasitism, Plant physiology, Ribosomes, Tissues. Translated from Russian.

9540-69

STABLE INTERMEDIATE AGGREGATES FORMED BY THE POLYMERIZATION OF BARLEY STRIPE MOSAIC VIRUS PROTEIN. J C Atabekov V K Novikov N A Kiselev A S Kaftanova A M Egorov

Virology 36(4):620-638 REF

Dec 1968 448.8 V81

Barley, Calcium chloride, Nucleic acids, Polymerization, Proteins, Stripe mosaic, Virology, Virus diseases (plants).

SEROLOGICAL STUDY ON BARLEY STRIPE MOSAIC VIRUS PROTEIN POLYMERIZA-TION. II. COMPARATIVE ANTIGENIC ANALYSIS OF INTACT VIRUS AND SOME STABLE PROTEIN INTERMEDIATES.

J G Atahekov S P Dementyeva N D

Schaskolskaya

Virology 36(4):601-612 REF

Dec 1968 448.8 V81

Antibodies, Antigens, Barley, Diffusion. Polymerization, Proteins, Serological tests, Stripe mosaic, Virology, Virus diseases (plants).

9542-69

SEROLOGICAL STUDY ON BARLEY STRIPE MOSAIC VIRUS PROTEIN POLYMERIZATION. I. IMMUNODIFFUSION, IMMUNOELEC-TROPHORETIC CHARACTERISTICS, AND ABSORPTION EXPERIMENTS.

J G Atabekov N D Schaskolskaya S P

Dementyeva G N Saeharovskaya E P Senehenkov

Virology 36(4):587-600 REF

Dec 1968 448.8 V81

Absorption, Barley, Diffusion, Electrophoresis, Immunology, Polymerization, Proteins, Serological tests, Stripe mosaie, Virology, Virus diseases (plants).

9543-69

A MODIFIED SOIL PERCOLATOR ZOOSPORE PRODUCTION AND INFECTION IN STUDIES ON ZOOSPORIC ROOT PATHOGENS.

R G Atkinson

Can J Plant Sci 47(3)332-334

May 1967 450 C16

Equipment, Phytophthora, Plant reproduction, Roots, Soil-borne plant diseases, Zoospores.

STUDY ON THE PATHOGENICITY OF PYTHI-UM VEXANS DE BARY, PHYTOPHTHORA SPP. AND PHYTOPHTHORA CACTORUM.

S Azeem

Pakistan J Sci Indus Res 11(4):446-448

Oct 1968 475 P174

Dianthus earyophyllus, Fungus diseases (plants), Phytophthora, Phytophthora eactorum, Pythium

9545-69

BOLL-ROT POTENTIAL, ORGANISMS IN-VOLVED, AND ACTUAL BOLL ROT IN SEVEN COTTON VARIETIES.

H S Bagga C D Ranney

Phytopathology 59(2):255-256

Feb 1969 464.8 P56

Alternaria tenuis, Aspergillus, Bacterial diseases (plants), Boll rot, Cotton, Crop losses, Crop varieties, Diplodia gossypina, Fungus diseases (plants), Fusarium, Microorganisms, Plant disease resistance, Xanthomonas malvacearum. Many fungus and hacterial diseases are presented in a table.

SOIL TREATMENT BY MICROWAVE ENERGY TO DESTROY PLANT PATHOGENS.

K F Baker W H Fuller

Phytopathology 59(2):193-197 REF Feb 1969 464.8 P56

Energy, Fungus diseases (plants), Fusarium solani phaseoli, Plant disease control, Soil fungi, Soil moisture, Soil sterilization, Spectroscopy.

CHROMATOGRAPHIC PURIFICATION OF THE OAT BLUE DWARF VIRUS.

E E Banttari R J Zeyen

Phytopathology 59(2):183-186

Feb 1969 464.8 P56

Blue dwarf, Cellulose, Chromatography, Cicadellidae, Insect vectors, Macrosteles fascifrons, Oats, Plant disease transmission, Polyethylene glycol, Purification procedures, Sodium chloride, Sucrose, Virology, Virus diseases (plants).

9548-69

THE IMPIETRATURA DISEASE OF CITRUS FRUITS.

A Bental B Dagan I Yoffe

China Plant Protect Bull 16(4):64-65 REF

Aug 1968 464.9 C47

Citrus, Impietratura, Plant disease transmission, Virus diseases (plants).

9549-69

FUSCOUS BLIGHT OF BEANS IN SOUTH AFRICA.

B H Boelema

S Afr J Agr Sci 10(4):1059-1061

Dec 1967 24 SU3

Baeterial diseases (plants), Beans, Biochemistry, Blight, Xanthomonas phaseoli.

The morphology and biochemical characteristics of Xanthomonas phaseoli and the symptoms of the blight it causes in beans are presented.

9550-69

IMPORTANCE OF IRREGULAR LOCAL AND SYSTEMIC INFECTIONS FOR THE INTER-FERENCE OF TOBACCO MOSAIC VIRUS STRAINS.

I Break

Rev Roumaine Biol Ser Bot 11(1/3):53-56

1966 QK1.R4

Interference phenomenon, Mosaie (tobaceo), Nicotiana glutinosa, Tobacco, Virus diseases (plants).

SUPPRESSION OF OZONE TOXICITY SYMP-TOMS IN VIRUS-INFECTED TOBACCO.

E Brennan I Leone

Phytopathology 59(2):263-264 REF

Feb 1969 464.8 P56

Mosaic, Ozone, Plant injuries, Plant physiology, Resistance, Tohacco, Toxicity, Virus diseases (plants).

9552-69

PHYSODERMA CITRI IN CITRUS ALBEDO AND CALLUS TISSUE.

G E Brown M F Oberbacher

Phytopathology 59(2):241-242

Feb 1969 464.8 P56

Callus (plants), Citrus, Fungus diseases (plants), Grapefruit, Lemons, Physoderma eitri, Tissues.

9553-69

ETIOLOGICAL STUDIES ON ROOT ROT OF WHEAT CAUSED BY CERCOSPORELLA HEAPOTRICHOIDES FRON.

R S Byther

Diss Abstr Sect B 29(3):834B-835B

Sep 1968 Z5055.U49D53

Cercosporella herpotrichoides, Fungus diseases (plants), Plant physiology, Plant temperature, Research, Root rot, Soil fungi, Wheat.

VIVIPARY IN ZEA MAYS INDUCED BY DIPLODIA MAYDIS.

O H Calvert M S Zuber M G Neuffer Phytopathology 59(2):239-240 REF

Feb 1969 464.8 P56 Corn, Corn ear, Diplodia zeae, Fungus diseases (plants), Hormones, Plant breeding, Plant physiology, Reproduction, Viviparity.

DUTCH ELM DISEASE - THREAT TO COLORADO.

Colo Farm Home Res 19(3,APR-JUN):2-3 1969 100 C712CO

Chemical control (plant diseases), Dieback, Fertilizers, Fungus diseases (plants), Methoxychlor, Plant diseases, Spraying, Ulmus.

9556-69

OCCURENCE OF TOMATO RINGSPOT VIRUS IN RED RASPBERRIES IN THE EASTERN UNITED STATES.

R H Converse B Y Endo

Phytopathology 59(2):216-218 REF

Feb 1969 464.8 P56

Cucumbers, Epidemiology, Plant disease transmission, Raspberries, Ring spot, Seedlings, Serological tests, Tomatoes, Virus diseases (plants).

1968 CRANBERRY INSECT AND DISEASE CONTROL CHART.

IP

1968 275.29 M3811

Accident prevention, Chemical control (insects), Chemical control (plant diseases), Cranberries, In-

9558-69

PEPPER PRODUCTION IN KENTUCKY.

H W Davis M E Fogleman Ky Univ Ext Circ 620:16P 1969 275.29 K415

Chemical control (insects), Chemical control (weeds), Crop yields, Fertilizers, Harvesting, Herbicides, Insecticides, Plant disease control, Plant nutritional deficiencies, Redpeppers (vegetable), Transplanting.

9559-69

PYCNIDIAL PRODUCTION BY DIAPORTHE VEXANS (SACC. AND SYD.) GRATZ AND THE PATHOLOGICAL HISTOLOGY OF INFECTED STEMS AND LEAVES OF EGGPLANT.

G G Divinagracia

Diss Abstr Sect B 29(3):836-837B

Scp 1968 Z5055.U49D53

Diaporthe vcxans, Eggplant, Fungus diseases (plants), Leaves, Parasitism, Plant histology, Pycnidia, Stems.

9560-69

STUDIES ON THE TUBERCULATE MYCORR-HIZAE OF DOUGLAS FIR (PSEUDOTSUGA TAXIFOLIA BRITTON).

T Dominik I Majchrowicz

Ekol Pol Ser A 15(3):75-90 REF

1967 512 W263

Fungus diseases (plants), Microbiology, Mycorrhizac, Nodulcs (plants), Pscudotsuga menziesii, Pseudotsuga taxifolia. Polish summary. the paper listed 23 kinds of mycelia.

DISEASE STATUS OF VARIOUS TROPICAL AND SUBTROPICAL FRUITS ON THE PARIS MARKET IN SUMMER. (FR)

J Foko P Joudrier S Smolikowski

Fruits 23(10):553-555,563,564,565,566

Nov 1968 80 F9492

Fruit, Fungus discases (plants), Marketing, Parasitism. English, German, Spanish, and Russian summarics.

A FUNGUS OF THE ONION, NEW FOR ITALY: BOTRYTIS SQUAMOSA WALKER. (IT)

A Garibaldi

Agr Ital 68(2,MAR-APR):96-100

1968 16 AG8259

Blast, Botrytis squamosa, Fungicides, Fungus diseases (plants), Humidity, Maneb, Onions, Plant morphology, Symptomatology, Temperature, Zinc plus ethylenebisditnio Zineb. English summary. ethylenebisdithiocarbamate mangancse,

9563-69

EVIDENCE FOR LONGEVITY OF SEEDS.

H Godwin

Nature 220(5168):708-709 REF

16 Nov 1968 472 N21

Albizia julibrissin, Canna, Longevity, Lupine, Nelumbium, Plant hardiness, Plant physiology, Rodents, Seedlings.

9564-69

THE PHYSICAL ACTION OF VIRUSES ON THE PLANT CELL.

M 1 Goldin

Rev Roumaine Biol Ser Bot 11(1/3):69-73 REF 1966 OK LR4

Cells, Inclusion bodies, Mitosis, Plant physiology, Virology, Virus diseases (plants), Viruses.

9565-69

THE PROTECTION OF APPLE TISSUE AGAINST INFECTION BY ERWINIA
AMYLOVORA AFFORDED BY AVIRULENT
STRAINS OF E. AMYLOVORA, A
SAPROPHYTIC BACTERIUM AND OTHER
BACTERIAL PLANT PATHOGENS.
R N Goodman

R N Goodman

Rev Roumaine Biol Ser Bot 11(1/3):75-79

1966 QK1.R4

Apples, Bacterial diseases (plants), Erwinia amylovora, Immunity, Pathogenic bacteria, Plant disease resistance, Tissues, Virulence.

9566-69

POTATO BLACKLEG AND TUBER SOFT ROT.

D C Graham P C Harper

Scot Agr 46(2,SPRING):68-74

1967 10 SCO82SO

Bacterial diseases (plants), Blackleg, Diagnosis, Etiology, Plant disease transmission, Potatoes, Soft

THE NATURE AND EFFECT OF ADULT PLANT RESISTANCE TO CROWN RUST IN SEVERAL COMMERCIAL OAT VARIETIES.

A S Heagle

Diss Abstr Sect B 29(3):837B

Sep 1968 Z5055.U49D53

Crop varieties, Crown rust, Fungus diseases (plants), Oats, Plant disease resistance, Plant genetics, Puccinia coronata, Research.

AN UNKNOWN GRAPE VINE DISEASE, SPRAY DAMAGE OR RED BURN EPIDEMIC . (GE)

I Henner

Pflanzenarzt 20(8):92-93

01 Aug 1967 464.9 P482

Crop varieties, Epidemiology, Fungus diseases (plants), Grape vineyards, Plant injuries, Pseudopeziza tracheiphila, Spraying.

SPECIFIC INHIBITION OF TMV-RNA SYNTHESIS BY BLASTICIDIN S.

A Hirai S C Wildman T Hirai Virology 36(4):646-651

Dec 1968 448.8 V81

Blasticidin S, Inhibitors, Mosaic, Proteins, Ribonucleic acid, Sucrose, Synthesis, Tobacco, Tobacco mosaic virus, Virology, Virus diseases (plants).

9570-69

FIELD OBSERVATIONS ON ROOT ROT OF TEAK IN TANZANIA.

D Hocking A A Jaffer

China Plant Protect Bull 15(1):10-14

Feb 1967 464.9 C47

Field studies, Fungus diseases (plants), Plant diseases, Root rot, Tectona.

9571-69

SUSCEPTIBILITY OF POTATO VARIETIES TO POWDERY SCAB. (SPONGOSPORA SUBTER-RANEA(WALLR.) JOHN). (SE)

F Janezic

Zastita Bilja 18(93/95):21-23

1967 464.8 Z1

Crop varieties, Fungus discases (plants), Plant discase resistance, Potatocs, Scab, Spongospora subterranea. English summary.

CORN VIRUS TESTS IN GEORGIA IN 1968. M D Jellum C W Kuhn

Ga Agr Exp Sta Res Rep (38):22 MAP

Jan 1969 S51.E22

Corn, Crop yields, Insect vectors, Plant geography, Virus diseases (plants).

9573-69

INTRACELLULAR APPEARANCE OF TURNIP MOSAIC AND BEAN YELLOW MOSAIC PAR-TICLES.

T Kamci Y Honda C Matsui

Phytopathology 59(2):139-144 REF

Feb 1969 464.8 P56

Broadbeans, Cells, Chinese cabbage, Electron microscopy, Mosaic, Turnips, Virus diseases (plants), Yellow mosaic.

RELATIONSHIP OF LIVING AND DEAD CELLS TO SPREAD OF COLLETOTRICHUM GRAMINICOLA IN SORGHUM STALK TISSUE. R A Katsanos A J Pappelis

Phytopathology 59(2):132-134

Feb 1969 464.8 P56

Cells, Colletotrichum graminicola, Crop varicties, Fungus diseases (plants), Leaves, Plant disease resistance, Plant injuries, Roots, Sorghum, Tissues.

OCCURRENCE OF ROSE STREAK VIRUS IN SOUTH AFRICA.

P J Klesser

S Afr J Agr Sci 10(3):847-856

Sep 1967 24 SU3

Disease transmission, Rosaceae, Streak, Symptomatology, Virus diseases (plants).

9576-69

MWITUNDE GROUNDNUTS AND THEIR REACTION TO VIRUS INFECTION IN SOUTH AFRICA.

P J Klesser

S Afr J Agr Sci 10(3):675-686

Sep 1967 24 SU3

Peanuts, Plant disease resistance, Virus diseases (plants).

Mwitunde groundnuts in South Africa were found to be more tolerant of viruses infecting peanuts than other varieties.

9577-69

THE INFLUENCE OF IRRIGATION ON THE OCCURRENCE OF DISEASES AND PESTS OF AGRICULTURAL CROPS. (REVIEW). (CZ)

F Kodys Stud Inform Ochrana Rost (1):40P REF 1967 SB599.S8

Crops, Cultural control (insects), Cultural control (plant diseases), Host indexing (plants), Insect pests, Irrigation, Microclimate, Plant diseases. English, German and Russian summaries.

THE OCCURRENCE OF A PHYTOPHTHORA ROOT AND LEAF DISEASE OF BLACK PEPPER IN JAMAICA.

R I Leather

China Plant Protect Bull 15(1):15-16

Fcb 1967 464.9 C47

Fungus diseases (plants), Pepper (spice), Phytophthora, Plant diseases.

9579-69

PRESENT KNOWLEDGE ON THE APHIDS IN THEIR RELATIONSHIPS WITH VIRUS DIS-EASES TRANSMISSION. (FR)

F Leclant

Ann Epiphyt 19(3):455-482 REF

1968 464.9 F84AN

Aphididae, Bibliography, Insect vectors, Virology, Virus diseases (plants). English abstract.

INTRODUCED SEED-BORNE PATHOGENS EN-DANGER CROP BREEDING AND PLANT IN-TRODUCTION.

E E Leppik

China Plant Protect Bull 16(4):57-63 REF Aug 1968 464.9 C47

Fungus diseases (plants), Plant breeding, Plant quarantine, Seed-borne plant diseases, Virus diseases (plants).

9581-69

A CONTRIBUTION TO THE STUDY OF ALTERNARIA TENUIS NEES CAUSER OF THE LEAF SPOT OF TOMATO. (SE)

STucie

Zastita Bilja 18(93/95):161-168

1967 464.8 Z1

Alternaria tenuis, Chemical control (plant diseases), Conidia, Fungus diseases (plants), Leaf spot, Maneb, Plant disease transmission, Plant morphology, Plant physiology, Polyethylene thiuram sulfides, Seedlings, Temperature, Tomatoes. English summary.

9582-69

INHERITANCE OF RESISTANCE TO THREE RACES OF LEAF RUST IN WHEAT VARIETY BOWIE.

J K Luthra S M A Naqvi M C Tyagi R N Sawhnev

Indian J Genet Plant Breeding 27(3):423-425 Nov 1967 64.8 1N2

Fungus diseases (plants), Inheritance, Leaf rust, Plant disease resistance, Plant genetics, Wheat.

9583-69

THE INFLUENCE OF ECTOTROPHIC MYCORRHIZAL FUNGI ON THE RESISTANCE OF PINE ROOTS TO PATHOGENIC INFECTIONS. I. ANTAGONISM OF MYCORRHIZAL FUNGI TO ROOT PATHOGENIC FUNGI AND SOIL BACTERIA.

D H Marx

Phytopathology 59(2):153-163 REF

Feb 1969 464.8 P56

Bacterial diseases (plants), Fungus diseases (plants), Growth factors, Inhibitors, Laccaria laccata, Lactarius deliciosus, Leucopaxillus cerealis, Mycorrhiza, Phytophthora cinnamomi, Pinus, Pisolithus tinctorius, Plant disease resistance, Roots, Soil bacteria, Soil microorganisms, Suillus luteus.

9584-69

ENTYLOMA COMPOSITARUM FARLOW ON GAILLARDIA PULCHELLA, NEW PARASITE IN YUGOSLAVIA. (SE)

M Mirie

Zastita Bilja 18(93-95):189-192

1967 464.8 Z1

Entyloma compositarum, Fungus diseases (plants), Gaillardia pulchella. English summary.

9585-69

DICARBAMATE DERIVATIVES OF AL-KYLADAMANTANES. PATENT 3,450,744. R E Moore

Us Patent Office Offic Gaz 863(3):891

12 Jun 1969 156.65 OF2

Carbamates, Mosaie, Patents, Poliomyelitis, Tobacco, Virucides, Viruses.

9586-69

3,4-DIHYDROXYBENZALDEHYDE, A FUNGISTATIC SUBSTANCE FROM GREEN CAVENDISH BANANAS.

D Mulvena E C Webb B Zerner

Phytochemistry 8(2):393-395

Feb 1969 450 P5622

Bananas, Colletotrichum circinans, Fungi, Fungicides, Fungus diseases (plants), Gloeosporium nusarum, Growth factors, Inhibitors, Protoceatechualdehyde, Ripe rot, Toxicity, Tropical fruit.

9587-69

CONTROL OF POWDERY MILDEW WITH NITRONAPHTHONITRILES. PATENT 3,432,601.

1 Okuda E Yoshinaga T Tsuboi Us Patent Office Offic Gaz 860(2):581

11 Mar 1969 156.65 OF2
Bactericides, Chemical control (plan

Bactericides, Chemical control (plant diseases), Fungi, Fungicides, Naphthonitrile compounds, Patents, Powdery mildew. 9588-69

DETERMINATION OF THE CRITICAL INJURY THRESHOLD FOR POTATO BLIGHT (PHYTOPHTHORA INFESTANS).

B Olofsson

Swed Stat Vaxtskyddsanst Medd 14(119):81-93 1968 464.9 SW3M

Blight, Fungus diseases (plants), Phytophthora infestans, Plant injuries, Plant protection, Potatoes. Swedish summary

9589-69

SYMPTOMS OF STUBBORN DISEASE IN CITRUS AND PONCIRUS FRUIT GRAFTED ONTO VIRUS-INFECTED SEEDLINGS.

E O Olson

Phytopathology 59(2):168-172 REF

Feb 1969 464.8 P56

Citrus, Fruit, Plant grafting, Plant physiology, Seedlings, Stubborn disease, Trifoliate oranges, Virus diseases (plants).

9590-69

SIX POWDERY MILDEWS FROM JAMMU AND KASHMIR STATE.

V R Pandotra J L Kachrod K S M Sastry Inc Acad Sci Proc 67(3):119-124

Mar 1968 513 1N25B

Economic plants, Erysiphe, Phyllactinia, Pleochaeta, Powdery mildew, Sphaerotheca, Uncinula.

9591-69

A STUDY OF THE BIOLOGY OF STEMPHYLI-UM BOTRYOSUM WALL. -PLEOSPORA HER-BARUM (PERS.) RABENH.- THE CAUSER OF BROWN SPOTS ON ALFALFA LEAVES. (SE)

M Perisic D Stojanovic

Zastita Bilja 18(93/95):37-44

1967 464.8 Z1

Alfalfa, Brown spot, Defoliation, Fungus diseases (plants), Leaves, Parasitism, Plant injuries, Pleospora herbarum, Stemphylium botryosum, Temperature. English summary.

9592-69

ACTIVITY OF MYXIN AGAINST CERATO-CYSTIS ULMI.

E A Peterson

Can J Microbiol 15(1):133-135

Jan 1969 448.8 C162

Antibiotics, Bacterial diseases (plants), Ceratocystis ulmi, Dieback, Inhibitors, Microorganisms, Myxin, Ulmus.

9593-69

CLOVER YELLOW VEIN VIRUS IN NORTH AMERICA.

M J Pratt

Plant Dis Rep 53(3):210-212 REF

Mar 1969 1.9 P69P

Beans, Chenopodium amaranticolor, Clover, Host indexing (plants), Peas, Tobacco, Virus diseases (plants), White clover, Yellow vein.

9594-69

MECHANICAL TRANSMISSION OF COCONUT LETHAL YELLOWING.

W C Price A P Martinez D A Roberts China Plant Protect Bull 15(6):105-108 REF Dec 1967 464.9 C47

Coconuts, Lethal yellowing (coconuts), Plant disease transmission, Zoogeography.

9595-69

DISRUPTION OF WATERMELON MOSAIC VIRUS-INDUCED INCLUSIONS BY PHOSPHOTUNGSTATE.

PHOSPHOTO D E Purcifull

Virology 36(4):690-693 REF

Dec 1968 448.8 V81

Electron microscopes, Inclusion bodies, Mosaic, Phosphotungstic acid, Plant extracts, Virology, Virus diseases (plants), Watermelons.

9596-69

MONILIA LAXA AS AN IMPORTANT FACTOR REDUCING THE YIELD OF SOME PLUM

VARIETIES (MONILIA LAXA (EHRENB.) ADERH. ET RUBL.). (SE)

L Radman

Zastita Bilja 18(93/95):85-92

1967 464.8 Z1

Crop varieties, Crop yields, Fruit, Fungus diseases (plants), Grapholitha funebrana, Hoplocampa, Monilia laxa, Peaches, Plant disease resistance, Plums, Sour cherries. English summary.

9597-69

RIBONUCLEASE ISOZYMES IN CHINESE CABBAGE SYSTEMICALLY INFECTED WITH TURNIP YELLOW MOSAIC VIRUS.

J W Randles

Virology 36(4):556-563 REF

Dec 1968 448.8 V81

Chinese cabbage, Electrophoresis, Plant extracts, Ribonuclease, Turnips, Virology, Virus diseases (plants), Yellow mosaic.

0508.69

OCCURRENCE OF PADDY VIRUS AND VIRUSLIKE SYMPTOMS IN INDIA.

S P Raychaudhuri M D Mishra A Ghosh Baltimore, John Hopkins Press. 59-65 REF

1969 NB633.C2

Cicadellidae, Leaf rust, Rice, Virus diseases (plants).

9599-69

RACES OF CROWN RUST IN SOUTH AFRICA.

D J Rossouw J A Truter

S Afr J Agr Sci 10(4):1065-1066

Dec 1967 24 SU3

Crown rust, Fungus diseases (plants), Oats, Plant pest resistance, Puccinia coronata.

Varieties of the fungus causing crown rust, Puccinia coronata, were surveyed on seven standard strains of oats to note any pathogenic changes in the occurrence and prevalence of the disease in South Africa.

9600-69

EFFECT OF INFECTION OF CORN BY THE FUNGUS USTILAGO ZEAE ON THE PROPERTIES OF THE CHLOROPHYLL-PROTEIN COMPLEX.

B A Rubin E N Lushchinskaya

Acad Sci U Ssr Dokl Bot Sci 179(MAR-APR):55-57 REF

1968 511 P444AE

Chlorophylls, Corn, Fungus diseases (plants), Plant biochemistry, Plant physiology, Proteins, Ustilago zeae. Translated from Russian.

9601-69

FUNCTIONS OF THE TWO PARTICLES OF TOBACCO RATTLE VIRUS.

H L Sanger

J Virology 3(3):304-312 REF

Mar 1969 QR360.J6

Electron microscopy, Physiology, Rattle disease, Ribonucleic acid, Serodiagnosis, Tobacco, Virus diseases (plants).

9602-69

INVESTIGATIONS ON THE SUSCEPTIBILITY OF POTATO TUBERS TO FUSARIUM CAERU-LEUM (LIB.) SACC., THE FUNGUS CAUSING DRY ROT. (GE)

K Schoene

Phytopathol Z 60(3):201-236 REF

Nov 1967 464.8 P562

Dry rot, Fungus discases (plants), Fusarium caerulcum, Oxygen, Plant injuries, Potatoes, Storage, Temperature, Tubers. English summary.

9603-69

VALUE OF IMMUNE MOUSE ASCITIC FLUID IN PLANT VIRUS SEROLOGY.

H A Scott K S Kim J L Dale

Phytopathology 59(2):233-234 Feb 1969 464.8 P56

Antibodies, Ascites, Blood serum, Mice, Plant disease control, Serological tests, Virology, Virus diseases (plants).

9604-69

ANTIBIOTIC SL 2266, PATENT 3,432,598.

H Sigg C Stoll

Us Patent Office Offic Gaz 860(2):580

11 Mar 1969 156.65 OF2

Antibiotics, Antiscptics, Cells, Fungi, Fungicides, Neoplasms, Patents, SI 2266, Sordaria.

BLASTEMOMRPHOUS STAGE OF FORMATION OF GALLS CAUSED BY USTILAGO MAYDIS (DC.) CDA ON CORN LEAVES.

E I Slepyan

Acad Sci U Ssr Dokl Bot Sci 178(JAN-FEB):17-

1968 511 P444AE

Corn, Fungus diseases (plants), Leaves, Neoplasms, Plant galls, Ustilago maydis. Translated from Russian.

9606-69

BLASTEMOMORPHOUS STAGE OF FORMATION OF GALLS CAUSED BY INFECTION BY USTILAGO MAYDIS (D. C.) CDA ON LEAVES OF ZEA MAYS L.

E 1 Slepyan 1 V Karatygin

Acad Sci U Ssr Dokl Bot Sci 178(JAN-FEB):13-

1968 511 P444AE

Corn, Erythrodermia, Fungus diseases (plants), Leaves, Necrosis, Symptomatology, Ustilago maydis. Translated from Russuan.

9607-69

POSTHARVEST DISEASES OF GUAVA IN IN-DIA.

M P Srivastava R N Tandon

Plant Dis Rep 53(3):206-208 REF

Mar 1969 1.9 P69P

Fungus discases (plants), Glocosporium psidii, Guavas, Pestalotia psidii, Phoma psidii, Phomopsis psidii, Physalospora rhodina, Rhizopus stolonifer, Storage.

9608-69

DNA BASE COMPOSITION AND TAXONOMY OF PHYTOPATHOGENIC AND OTHER EN-TEROBACTERIA.

M P Starr M Mandel

J Gen Microbiol 56(1):113-123 REF

Apr 1969 448.3 J823

Bacteria, Deoxyribonucleic acid, Methodology, Plant biochemistry, Taxonomy.

HELMINTHOSPORIUM LEAF BLIGHT- A NEW DISEASE OF COTTON IN THE PUNJAB AND HARYANA.

D Suryanarayana P S Bedi N N Tripathi

Prog Farming 5(1):62-65

Mar 1968 \$19.P8

Cotton, Crop varieties, Diagnosis, Fungus diseases (plants), Helminthosporium spiciferum, Leaf blight (cotton), Plant disease resistance.

SOWBANE MOSAIC VIRUS INFECTING CHENOPODIUM TRIGONON IN QUEEN-SLAND.

D S Teakle

Australian J Biol Sci 21(4):649-653

Aug 1968 442.8 AU72

Chenopodium, Electron microscopy, Mosaic, Plant geography, Scrological tests, Virus diseases (plants).

A virus isolated from fish weed, Chenopodium trigonon, in Australia, showed serological properties, host range, symptoms, and physical properties similar to those of sowhane mosaic virus.

ELECTRON MICROSCOPIC OBSERVATION OF CRYSTALLINE ARRAYS OF VIRUS-LIKE PARTICLES IN TISSUES OF MINK WITH ALEUTIAN DISEASE.

K S Tsai I Grinyer I C Pan L Karstad Can J Microbiol 15(1):138-140 REF Jan 1969 448.8 C162

Aleutian disease, Electron microscopy, Foot-andmouth disease virus, Kidneys, Laboratory animals, Minks, Teschen disease virus, Virus diseases (animals).

9612-69

COCOA DIEBACK- A REVIEW OF PRESENT KNOWLEDGE.

P.D. Turner

Cluina Plant Protect Bull 15(5):81-101 REF

Oct 1967 464.9 C47

Cocoa, Dieback, Plant ecology, Plant nutrition, Reviews, Zoogeography.

SYSTEMIC CONTROL OF EXOBASIDIUM VEXANS ON TEA WITH 1,4-0XATHIIN DERIVATIVES.

C S Venkata Ram

Phytopathology 59(2):125-128 REF

Feh 1969 464.8 P56

Blister blight, Chemical control (plant diseases), Exobasidium vexans, Fungus diseases (plants), Oxathiins, 1,4-, Seed treatment, Spraying, Systemic insecticides, Tea.

9614-69

PROGRESS ON CITRUS VIRUS DISEASES THROUGH INTERNATIONAL CO-OPERATION AND SOME PROBLEMS AND RESEARCH NEEDS IN THE PACIFIC REGION.

t M. Wallace

China Plant Protect Bull 15(6):109-114 REF Dec 1967 464.9 C47

Citrus, Surveys, Virus diseases (plants).

SEQUENCE STUDIES OF SATELLITE TOBAC-CO NECROSIS VIRUS RNA; ISOLATION AND CHARACTERIZATION OF A 5'-TERMINAL TRINUCLEOTIDE.

E Wimmer A Y Chang J M Clark M E

Reichmann

J Molec Biol 38(1):59-73 REF

28 Nov 1968 442.8 J8224

Kinases, Neerosis, Nucleotidases, Phosphorylation, Ribonucleic acid, Tobacco, Virus diseases (plants).

RECENT ADVANCES IN THE CONTROL OF SOIL FUNGI.

G A Zentmyer

China Plant Protect Bull 15(1):1-5

Feb 1967 464.9 C47

Biological control, Fungicides, Phytophthora, Plant disease resistance, Soil fungi, Steam.

VIRUS RATINGS OF CORN STRAINS IN MIS-SOURI, 1968.

M S Zuber A J Keaster N G Weir C F Stark P J Loeseh

Mo Agr Exp Sta Res Bull (102):15P

Nov 1968 100 M693 (3)

Corn, Crop varieties, Tables (data), Virus diseases (plants).

# **ARTHROPODS**

9618-69

OVICIDAL AND LARVICIDAL ACTIONS OF PETKOLIN AGAINST RED SPIDER MITES (ACARINA: TETRANYCHIDAE).

T Ahmed M Anwarullah

Pakistan J Sci Indus Res 11(4):455-456

Oct 1968 475 P174

Aramite, Chemical control (insects), Chlorinated hydrocarbons, Chlorobenzilate, Larvieides, Ovieides, Petkolin, Tetranychus telarius.

9619-69

TRANSMISSION INTENSITY OF STOLBUR VIRUS BY MEANS OF HYALESTHES OBSOLETUS SIGN. ON SOME HOST PLANTS. (SE)

Z Aleksie D Sutie D Aleksie Zastita Bilja 18(93/95):67-73 1967 464.8 Z1

Cicadellidae, Convolvulus arvensis, Eggplant, Hyalesthes obsoletus, Insect vectors, Piper nigrum, Plant disease transmission, Stolbur, Symptomatology, Tomatoes, Virus diseases (plants). English sum-

9620-69

NEW ELECTRONIC CONCEPTIONS ON AC-TOGRAPHY APPLIED TO THE STUDY OF IN-VERTEBRATES. (FR)

A J Andrien

Ann Epiphyt 19(3):483-499 REF

1968 464.9 F84AN

Electrical engineering, Insect physiology, Laboratory equipment, Sound waves, Vibration. English

9621-69

THE ESTABLISHMENT OF METAPHYCUS HELVOLUS (COMPERE) (HYM. ENCYRTIDAE) ON SAISSETIA OLEAE (BERN.) (HOM. COCCIDAE) IN OLIVE GROVES IN GREECE.

L C Argyriou P Detbach

Entomophaga 13(3):223-228

1968 421 EN835

Biological control (insects), Encyrtidae, Metaphyeus, Olives, Saissetia oleae.

9622-69

THE CHEMICAL CONTROL THE DIPLOPODA OF BEETS. (FR)

J Biernaux

Bull Recherch Agron Gembloux (N s)3(1):26-35 REF

1968 S5.B8

Aldrin, Beets, Chemical control (insects), Diplopoda, Heptachlor, Insect biology, Insecticide application, Insecticides, Parathion, Plant pest con-

9623-69

RECENT INTRODUCTIONS FOR BIOLOGICAL CONTROL IN HAWAII-XIII.

C J Davis M Chong

Hawaii Entomol Soc Proc 20(1):25-34 REF Jun 1968 420 H312

Biological control (pests), Insects, Reviews, Snails, Weeds.

RECENT INTRODUCTIONS FOR BIOLOGICAL CONTROL IN HAWAII-XII.

C J Davis N L H Krauss

Hawaii Entomol Soc Proc 19(3):375-380 REF Jun 1967 420 H312

Biological control (pests), Insects, Reviews, Snails, Weeds.

A CURRENT REVIEW OF THE USE OF INSEC-TICIDES IN AGRICULTURE.

E Dunn

Scot Agr 46(4,AUTUMN):181-183

1967 10 SCO82SO

Chemical control (insects), Chlorinated hydrocarbons, Crop yields, Insecticides, Organophosphorus insecticides, Reviews.

The use of chlorinated hydrocarbons and organophosphorous compounds as insecticides and the resulting increase in crop yields are reviewed.

PESTS AND DISEASES OF THE DATE PALM. PART I. MITES, INSECTS AND NEMATODES.

H S Elmer J B Carpenter L J Klotz Cliina Plant Protect Bull 16(5):77-91

Oct 1968 464.9 C47 Acarina, Biology, Chemical control (pests), Dates, Insects, Nematodes, Plant diseases, Reviews, Surveys.

9627-69

VECTORS OF HOJA BLANCA VIRUS.

T R Everett

Baltimore, John Hopkins Press. 111-121 REF 1969 NB633.C2

Chemical control (insects), Hoja blanca, Insect vectors, Organophosphorus compounds, Rice, Virus diseases (plants).

### 9628-69

EFFICACY OF DISULFOTON FOR CONTROL OF THE GREEN PEACH APHID, MYZUS PER-SICAE, ON PEPPERS.

W H Foott F G von Stryk P R Timmins Can Entomol 101(4):375-382 REF

Apr 1969 421 C16

Chemical control (insects), Disulfoton, Insecticides, Myzus persicae, Pepper.

FIRST OBSERVATIONS OF DAMAGE TO OLIVE TREES, CAUSED BY A CECIDOMYDE. CLINODIPLOSIS OLEISUGA TARG.(DIPT. CECIDOMYDAE). (FR)

A Hafraoui Awamia (20):139-141

Jul 1968 24 AW1

Cecidomyiidae, Clinodiplosis oleisuga, Insect biology, Insect control, Insect pests, Insect rearing, Olives, Tree injuries.

NEXT MOVE AGAINST THE GRASSGRUB.

R A Harrison C P Hoyt G O Osborne

New Zeal J Agr 118(6):17

Jun 1969 23 N48J

Chemical analysis, Chemical control (insects), Costelytra zealandica, Insect biochemistry, Insecticides, Sex attractants.

TRANSMISSION OF DWARF, YELLOW DWARF, STRIPE, AND BLACK-STREAKED DWARF.

T T lida A Shinkai

Baltimore, John Hopkins Press. 125-129 REF 1969 NB633.C2

Black-streaked dwarf, Dwarf disease, Insect vectors, Nephotettix, Plant disease transmission, Rice, Stripe, Virus diseases (plants), Yellow dwarf.

### 9632-69

INFLUENCE OF HIGH TEMPERATURES ON THE PATHOGENICITY AND SURVIVAL OF WESTERN X-DISEASE VIRUS IN LEAFHOP-PERS.

D D Jensen

Virology 36(4):662-667 REF

Dec 1968 448.8 V81

Celery, Cicadellidae, Colladonus montanus, Insect vectors, Temperature, Thermotherapy, Virus discases (plants), Western X.

## 9633-69

COMMERCIAL VEGETABLE INSECT CON-TROL.

G F Knowlton D W Davis R S Roberts Utah State Univ Ext Ext Circ 300:29P

Apr 1969 275.29 UTI

Bees, Chemical control (insects), Chemical control (nematodes), Cultural control (insects), Insect pests, Insecticide application, Insecticides, Maggots, Pesticides, Plant nematodes, Spraying, gots, Pesti Vegetables.

### 9634-69

OBSERVATIONS ON THE ECOLOGY OF THAIA ORYZIVORA, A LEAFHOPPER FOUND ON RICE IN THAILAND.

J Leevwangh P Levamsang

China Plant Protect Bull 15(2):30-31 ·

Apr 1967 464.9 C47

Cicadellidae, Insect ecology, Population, Rice.

THE ROLE OF HAMPEA SP. IN THE MIGRA-TION OF THE COTTON LEAFWORM TO THE UNITED STATES.

M J Lukefahr P A Fryxell J Econ Entomol 62(1):263-264 17 Feb 1969 421 J822

Alabama argillacea, Anthonomus grandis, Hampea, Insect migration, Insect pests, Longevity,

NEW LARGE-SCALE EXPERIMENTATION IN BIOLOGICAL CONTROL OF THE OLIVE FLY (DACUS OLEA GMEL.) BY MEANS OF OPIUS CONCOLOR SICULUS MON. IN SICILY IN 1967, (FR)

S Monastero

Entomophaga 13(3):251-261 MAP

1968 421 EN835

Biological control (insects), Dacus oleae, Field studies, Opius concolor. English abstract.

A NEW METHOD OF CABBAGE ROOT FLY CONTROL.

P Osborne

Scot Agr 46(2,SPRING):92-95

1967 10 SCO82SO

Cabbage, Chlorfenvinphos, Diazinon, Disulfoton, Hylemya brassicae, Insect control, Insecticide application, Methodology, Organophosphorus compounds, Phorate.

### 9638-69

NOTE ON THE EFFECTS OF CERTAIN WILD PLANTS, TEMPERATURE AND INSECTICIDES ON THE GROWTH AND DEVELOPMENT OF AGROTIS SEGETUM SCHIFFER-MUELLER (LEPIDOPTERA: NOCTUIDAE).

S N Pandey J K Bogawat

Indian J Agr Sci 38(5):826-827

Oct 1968 22 AG83I

Agrotis segetum, Aldrin, Benzene hexachloride, Carbaryl, Chemical control (insects), Chlordane, Food plants, Insect morphology, Noctuidae, Tem-

The growth and development of the cutworm, Agrotis segetum, was retarded by dietary intake, low temperature and was inhibited by chlordane, aldrin, BHC and carbaryl.

### 9639-69

EFFECTIVENESS OF A LIGHT TRAP IN THE PROTECTION OF THE HEALTH AND PRODUCTIVITY OF CORN. (IT)

R Prota G Delrio

Stud Sassaresi Sez III 15(2):293-307 REF 1967 507 SA75A

Corn, Costs, Crop yields, Insect control, Insect pests, Insect traps, Lepidoptera, Light traps, Plant protection, Plant protection equipment, Sesamia. English summary.

THE DEFENSE OF A CORN CROP AGAINST NOXIOUS INSECTS BY MEANS OF A LIGHT

R Prota

Stud Sassaresi Sez III 15(2):267-292 REF 1967 507 SA75A

Corn, Crop varieties, Insect control, Insect pests, Insect traps, Lepidoptera, Light traps, Ostrinia nubilalis, Plant protection, Sesamia nonagrioides. English summary.

### 9641-69

THE MITE ACERIA TULIPAE (ERIOPHYIDAE)--VECTOR OF THE ONION MOSAIC VIRUS. (RUS)

G M Razvyazkina E A Kapkova N P Cheremushkina

Zool Zhur 48(2):288-289

Feb 1969 410 R92

Aceria tulipae, Aphididae, Insect vectors, Mosaic, Onions. English abstract

### 9642-69

NEW HOSTS, DISTRIBUTION, AND BIOLOGI-CAL NOTES ON AN IMPORTED AMBROSIA BEETLE, XYLOSANDRUS GERMANUS (COLEOPTERA: SCOLYTIDAE).

I Schneider M H Farrier Can Entomol 101(4):412-415 REF

Apr 1969 421 C16

Insect biology, Nyssa, Prunus serotina, Scolytidae, Taxodium distichum, Zoogeography.

### 9643-69

HOME ORCHARD PEST CONTROL.

M C Shurtleff R Randell D B Meador

Ill Univ Ext Circ 1001:7P

Apr 1969 275.29 IL62C

Birds, Chemical control (pests), Chlorinated hydrocarbons, Cultural control (insects), Formulations, Fruit, Insect pests, Mice, Orchards, Organophosphorus compounds, Pesticide application, Pesticides, Rabbits, Spraying, Thiocarbamates.

FLY PESTS AFFECT SOME CROPS IN NORTHLAND.

W Stacey

New Zeal J Agr 118(1):74-75

Jan 1969 23 N48J

Chemical control (insects), Cucumbers, Diazinon, Dichlorvos, Larvae, Malathion, Methyl parathion, Nicotine, Sciara annulata, Trichlorfon.

The larvae of Sciara annulata have become a major pest of cucumbers in New Zealand. Dichlorvos, malathion, nicotine sulfate, and methyl parathion have been shown to control these insects effectively.

### 9645-69

COMPARATIVE ELECTRON MICROGRAPHS OF SOWTHISTLE YELLOW VE VESICULAR STOMATITIS VIRUSES. VEIN AND

E S Sylvester J Richardson P Wood

Virology 36(4):693-696

Dec 1968 448.8 V81

Aphididae, Electron microscopes, Insect vectors, Sonchus, Vesicular stomatitis virus, Virology, Virus diseases (animals), Virus diseases (plants), Yellow vein.

### 9646-69

SOME NEW HOST PLANTS OF THE SUN-FLOWER MOTH IN TEXAS.

G L Teets N M Randolph

J. Econ. Entomol 62(1):264-265

17 Feb 1969 421 J822 Feeding, Homeosoma electellum, Insect pests, Plants, Seeds. 11 new host plants were listed.

PRELIMINARY STUDIES ON THE INCIDENCE OF SHOOTFLY (ATHERIGONA INDICA) ON HYBRID JOWAR UNDER DIFFERENTIAL SOWINGS.

S Usman

Mysore J Agr Sci 2(1):44-48

1968 S19.M9

Atherigona indica, Climate, Crop varieties, Durra, Insect pests, Plant dissemination.

OBSERVATIONS ON CROP PESTS IN THE SUDAN IN 1966-67. T V Venkatraman E El Khidir

China Plant Protect Bull 15(6):115-116

Dec 1967 464.9 C47

Plant pests, Surveys.

NOTE ON TRICHOGRAMMA JAPONICUM ASHM., AN EGG PARASITE OF INTERNODE-BORER (PROCERAS INDICUS KAPUR) OF SU-GARCANE IN MADRAS STATE.

S Venugopal H Subramanian R Natarajan Indian J Agr Sci 38(5):874-875

Oct 1968 22 AG83I

Biological control (insects), Egg parasite, Natural control (insects), Parasitic insects, Proceras indicus, Sugarcane, Trichogramma japonicum, Weather.

Optimum climatic conditions for Trichogramma japonicum parasitization of Proceras indicus were found and the possibilities for developing this as a biological control for this internode borer of sugarcane are discussed.

9650-69

ON THE EXTINCTION OF THE ASIATIC RICE BORER CHILO SUPPRESSALIS IN HAWAIL

K Yasumatsu T Nishida H A Bess

Hawaii Entomol Soc Proc 20(1):239-245 REF Jun 1968 420 H312.

Biological control (insects), Chilo suppressalis, Insect outhreaks.

### **NEMATODES**

9651-69

THE EELWORM PROBLEM IN GLASSHOUSE TOMATOES.

E Dunn

Scat Agr 46(2,SPRING):87-89

1967 10 SCO82SO

Greenhouses, Heterodera rostochiensis, Nematocides, Nematode control, Plant nematodes, Soil sterilization, Tomatoes.

9652-69

TRANSMISSION OF TOBACCO RINGSPOT VIRUS TO THE ROOTS OF A CONIFER BY A NEMATODE.

J P Fulton

Phytopathology 59(2):236

Fch 1969 464.8 P56

Coniferae, Cupressus arizonica, Nematode vectors, Plant disease transmission, Plant nematodes, Ring spot, Roots, Tohacco, Virus diseases (plants), Xiphinema americanum.

9653-69

ASSESSMENT OF CROP LOSSES CAUSED BY NEMATODES IN THE UNITED STATES.

J M Good

China Plant Protect Bull 16(3):37-40

Jun 1968 464.9 C47

Crop losses, Economics, Plant nematodes, Surveys.

9654-69

ROOT NEMATODE (MELOIDOGYNE NAASI FRANKLIN) IN SERBIA (PRELIMINARY COMMUNICATION), (SE)

G Grujicic

Zastita Bilja 18(93/95):193-197

1967 464.8 ZT

Barley, Mangel-wurzel, Meloidogyne naasi, Parasitism, Plant nematodes, Roots, Sugar heets, Wheat, English summary.

9655-69

NEMATODES ASSOCIATED WITH DECLINING COCONUT PALMS.

K Maramorosch A m Goldlen

China Plant Protect Bull 15(2):38-39

Apr 1967 464.9 C47

Coconuts, Nematodes, Plant nematodes, Surveys.

9656-69

DYNAMICS OF THE PERMEATION OF NEMATODES BY WATER, NEMATOCIDES AND OTHER SUBSTANCES.

C F Marks LJ Thomason C E Castro Exp Parasitol 22(3):321-337 REF

Jun 1968 436.8 EX7

Anguina tritici, Aphelenchus avenae, Chlorinated hydrocarbons, Dibromo-3-chloropropane, 1.2-Ethylene dibromide, Glucose, Glycine, Nematocides, Nematodes, Permeability, Rhizoctonia solani, Sodium acetate, Tylenchulus semipenetrans, Water.

9657-69

STUDY OF NEMATODES CAUSERS OF ROOT SPOT-PRATYLENCHUS SPP. (SE

K Olga

Zastita Bilja 18(93/95):133-142

1967 464.8 Z1

Barley, Crop rotation, Fungus diseases (plants), Plant nematodes, Pratylenchus, Pratylenchus crenatus, Pratylenchus neglectus, Pratylenchus thornei, Root rot, Root spot, Wheat, English summary.

# WEEDS

9658-69

VENDETTA AGAINST WEEDS.

Anonymous

Farm Quart 24(1,SPRING):90-91, 126, 128

1969 6 F22995

Chemical control (weeds), Cultural control (weeds), Herbieides, Soyheans, Trifluralin, Vernolate.

9659-69

YOUNG HAYWOOD COUNTY FARMER TEAM: HOW THEY SOLVE SOME TRICKY PROBLEMS.

Anonymous

Tennessee Farmer 16(2):4H

Feb 1969 S115.T42

Agricultural economics, Agricultural labor, Chemical control (weeds), Cotton, Herbicides. Treflan, herhan, MSMA, DSMA, cotoran, bidrin and 4-2-1 toxaphene-ddt-methyl were tested.

9660-69

MISSISSIPPI RATINGS GIVEN TO COTTON HERBICIDES.

Anonymous

Miss Farmer 17(4):24

Apr 1969 6 M6992

Chemical control (weeds), Cotton, Herbicides, Weeds. Herbicides were rated according to their effectiveness.

9661-69

CASORON--A NEW WEED KILLER TO PROTECT WOODY PLANTS.

Anonymous

Arnoldia 29(4):21-24

18 Apr 1969 451 AR6BA

Agropyron repens, Chemical control (weeds), Diehlobenil, Shrubs, Weed control.

9662-69

NEW HERBICIDE INTRODUCED FOR BUCKWHEAT CONTROL IN CEREAL LANDS. Anonymous

Farmers Weekly 116:59,62

30 Oct 1968 24 F225

Bromoxynil, Buckwheat, Chemical contro (weeds), Field crops, Grain, Herbicides.

9663-69

CROP SEEDLING UPTAKE OF DDT, DIEL-DRIN, ENDRIN, AND HEPTACHLOR FROM SOILS.

M L Beall R G Nash

Agron J 61(4,JUL-AUG):571-575 REF

Aug 1969 4 AM34P

Absorption, Crops, Dieldrin, DDT, Endrin, Heptachlor, Insecticides, Pesticide residues, Seedlings.

9664-69

PRELIMINARY RESEARCH ON THE ACTION OF C. C. C. ON GRAPES. (FR)

R Bonnet J Lhoste L Penchi B Pascalon Paris Acad Agr France Compt Rend Hebd Seances 54(9):708-712

19 Jun 1968 14 P215BC

Chloroethyl)trimethylammonium chloride, (2-, Crop yields, Grapes, Plant regulators.

9665-69

CONTROL OF DODDER IN HOME GARDENS. L. I. Danielson

Amer Hort Mag 48(1,WINTER):41-43 1969 80 N216

Chemical control (weeds), Chlorinated hydrocarbons, Chloropropham, Cuscuta, Dimethyl tetrachloroterephthalate, Gardens, Herbicides, Methyl bromide, Soil fumigation.

9666-69

THE INFLUENCE OF THE STEPPES INUNDATION AND ENLARGEMENT OF THE AREA OF CULTIVATION UPON DISTRIBUTION AND NUMBERS OF HARMFUL RODENTS OF AZERBAIJAN. (RUS)

T S Gladkina

Zool Zhur 47(12):1840-1850

Dec 1968 410 R92

Chemical control (pests), Pastures, Rodents, Zoogeography. English abstract

9667-69

THE STATUS OF BIOLOGICAL CONTROL OF THE WEED HYPERICUM PERFORATUM IN BRITISH COLUMBIA.

P Harris D Peschken J Milroy

Can Entomol 101(1):1-15 REF

Jan 1969 421 C16

Agrilus hyperici, Arid regions, Biological control (weeds), Chrysolina hyperici, Chrysolina quadrigemina, Chrysolina varians, Humidity, Hypericum perforatum, Insect dissemination, Insect ecology, Zeuxidiplosis giardi.

9668-69

MANAGEMENT AND WEED CONTROL.

W W Huffine

(PT 1):1-13

Dec 1965 60.19 OK4

Chemical control (weeds), Cynodon dactylon, Herbicide application, Herbicides.

Many herbicides are listed. The weeds discussed are: Smooth crabgrass, hentgrass, Sunturf bermuda, Silver Crab, annual bluegrass, Seaside bentgrass, hairy crabgrass, hembit, and chickweed.

9669-69

HERBICIDAL ETHER. PATENT 3,450,522.

D V Lopickes

Us Patent Office Offic Gaz 863(3):854

17 Jun 1969 156.65 OF2

Ethers, Herbicides, Patents.

9670-6

TOLERANCE. OF SORGHUM BICOLOR (L.) MOENCH TO SEVERAL HERBICIDES.

F R Miller R W Bovey
Agron J 61(2,MAR-APR):282-285 REF

Apr 1969 4 AM34P

Herbicide resistant plants, Herbicides, Inheritance, Plant geography, Sorghum, Tolerances.

671-69

HERBICIDAL N-HALO-ALPHA-HALOACETANILIDES. PATENT 3,450,521.

J F Olin P C Hamm

Us Patent Office Offic Gaz 863(3):854

17 Jun 1969 156.65 OF2

Haloacetamides, alpha-, Herbicides, Patents.

9672-69

SOME HERBICIDAL AND PHYSIOLOGICAL EFFECTS OF 3,4-DICHLOROPROPIONANILDE (STAM F-34) ON AMMANNIA BACCIFERA L.

J Prakash

Prog Farming 5(1):58-61

Mar 1968 S19.P8

Ammannia baccifera, Chemical control (weeds), Dosage, Herbicides, Plant physiology, Propanil, Rice.

9673-69

RESEARCH CONCERNING THE EFFECTIVE-NESS OF SOME HERBICIDES IN CON-TROLLING THE WEEDS FROM PEA CROPS IN THE WESTERN AREAS OF THE COUNTRY.

O Segarceanu N Sarpe S Mate I Vladutu N Bratu N Gribincea

Probl Agr 20(11):37-48 REF

1968 21 R862

Chemical control (weeds), Crop yields, Herbicides, Peas, Zonal soils. English, Russian and French summaries.

On, prometrin, camparol, atrazine, phenoxilene plus, 2,4-D

9674-69

THE BIOLOGY AND CONTROL OF THE RICE FIELD MOLE RAT OF CEYLON, GUNOMYS GRACILIS. (0)

H E Fernando N Kawamoto N Perea China Plant Protect Bull 15(2):32-37 Apr 1967 464.9 C47

Biology, Chemical control (pests), Habitats, Phosphine, Rats.

9675-69

MODIFICATION OF PFEIFER'S BIRD-CON-TROL APPARATUS.

R C Rosenau R V Worstell

Agran J 61(2,MAR-APR):327-328

Apr 1969 4 AM34P

Bird control, Dairy equipment, Electric shock, Electrical engineering, Grain.

# LIVESTOCK PROTECTION

9676-69

SHEARING BY DRUG.

Anonymus

Sci News Lett 94(21):520

23 Nov 1968 470 SCI24

Alkylation, Agricultural economies, Cyclophosphamide, Deoxyribonucleic acid, Drug therapy, Drugs, Livestock, Protein synthesis, Sheep shearing, Wool.

9677-69

NOTICE OF FILING OF PETITION FOR FOOD ADDITIVE METOSERPATE HYDROCHLORIDE.

R E Duggan

Fed Regist 34(44):4898

06 Mar 1969 L1.451

Food additives. Chickens. Metoserpate hydrochloride, Slaughtering, Water.

RESPONSE ON LACTATING COW TO CORN SILAGE AND CONCENTRATES OF THREE NITROGEN LEVELS WITH AND WITHOUT UREA.

F N Knott

Diss Abstr Sect B 29(3):823B

Sep 1968 Z5055.U49D53

Animal physiology, Cattle, Corn. Lactation, Nitrogen, Proteins, Silage, Urea.

9679-69

KLOT STAINLESS, DRUGS FOR VETERINARY USE, DRUG EFFICACY STUDY IMPLEMENTA-TION.

H L Lev

Fed Regist 34(52):5342-5343

18 Mar 1969 L1.451

Butyl alcohol, n-, Drug therapy, Drugs, Serum, Veterinary medicine.

ATARAXOID TABLETS. DRUGS FOR VETERI-NARY USE; DRUG EFFICACY STUDY IMPLE-MENTATION.

H L Ley

Fed Regist 34(54):5448

20 Mar 1969 L1.451

Drug therapy, Drugs, Hydroxyzine, Prednisolone, Veterinary medicine.

DIIODOHYDROXYQUIN. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.

H L Ley

Fed Regist 34(54):5449

20 Mar 1969 L1.451

Diiodohydroxyquin, Drug therapy, Drugs, Sealp, Schorrhea.

9682-69

A NOTE ON THE DAILY URINARY EXCRE-TION OF ESTRADIOL-17BETA AND ESTRONE BY THE HEN

**BIBLIOGRAPHY** 

R S Mathur R H Common

Poultry Sci 48(1):100-104 REF

Jan 1969 47.8 AM33P

Animal physiology, Chickens, Estradiol, Estrone, Exerction, Urine

9683-69

TURKEY LIPID CHARACTERISTICS: IN-FLUENCE OF SEX, AGE AND ESTRADIOL-17 BETA-MONOPALMITATE.

W E Osborn R E Moreng T E Hartung Poultry Sci 48(1):274-283 REF

Jan 1969 47.8 AM33P

Aging, Animal histology, Animal physiology, Estradiol, Fatty acids, Lipids, Sex, Turkeys.

WHITE SPINE IN DOMESTIC ZEBU, THE CAT-TLE OF AZERBALJAN, (RUS)

Z K Verdiyev

Genetika 4(9):165-168

1968 QH431.A1G4

Animal adaptation, Animal breeding, Animal geneties, Animal physiology, Cattle breeds, Livestock, Resistance, Zebu eattle.

### DISEASES

9685-69

FURTHER STUDIES ON LEUCOCYTOZOON CAULLERYI IN DOMESTIC FOWLS IN THE PHILIPPINES.

Avian Dis 13(2):280-287

May 1969 41.8 AV5

Chickens, Leucocytozoon caulleryi, Morphology, Poultry diseases.

EFFECT OF SUCCINYLCHOLINE CHLORIDE ON THE CARDIAC FUNCTION OF HORSE. (JA)

A Amada S Yoshida T Senta T Uchino Exp Rep Equine Health Lab (4):88-106 REF 1967 SF321.N5

Animal physiology, Dosage, Electrocardiograms, Heart, Horses, Succinylcholine chloride. English

PROSTAGLANDINS: ENZYMATIC ANALYSIS.

E Anggard F M Matschinsky B Samulesson Science 163(3866):479-480

31 Jan 1969 470 SC12

Animal physiology, Biological assay, Dehydrogenases, Enzymes, Lungs, Prostaglandins, Swine.

9688-69

CORONAVIRUSES.

Anonymous

Nature 220(5168):650

16 Nov 1968 472 N21

Coronaviruses, Electron microscopy, Infectious bronchitis, Myxoviruses, Virology, Virus diseases (animals).

THE EGG-BIT TECHNIQUE FOR MEASURING NEWCASTLE DISEASE VIRUS AND ITS NEUTRALIZING ANTIBODIES.

C W Beard

Avian Dis 13(2):309-320 REF

May 1969 41.8 AV5

Antibodies, Eggs, Newcastle disease virus, Particle size determination, Virus-neutralization tests.

A BIOLOGICAL CONTROL FOR ECHINOCOC-CUS. (IT)

E Biocca O Massi

Parassitologia 10(1):61-73 REF

Jul 1968 436.8 P212

Animal diseases, Biological control (pests), Echinococcosis, Echinococcus granulosus, Swine. English summary

9691-69

STUDIES ON THE ROLE OF MAMMALS IN THE NATURAL HISTORY OF WESTERN EN-CEPHALITIS IN HALE COUNTY TEXAS.

J H Bowers R O Hayes T B Hughes

J Med Entoniol 6(2):175-178 REF

May 1969 421 J828

Animal vectors, Epizootic diseases, Mammals, Rabbits, Western equine encephalomyelitis.

DUCK PLAGUE VIRUS DISTRIBUTION IN EMBRYONATING CHICKEN AND DUCK

W K Butterfield F A Ata A H Dardiri

Avian Dis 13(1):198-202

Feb 1969 41.8 AV5

Chick embryos, Duck plague, Ducks, Eggs, Mortality, Poultry diseases, Virus diseases (animals).

9693-69

TREATMENT OF INFECTIOUS CANINE HEPATITIS WITH A MONOAMINE OXIDASE INHIBITING DRUG.

H Cifuentes-Bernal A Albornoz-Plata E Nunez-Olarte S Triana-Aguilar B Buitrago

Toxicol Appl Pharmacol 12(3):508-517 REF

May 1968 391.8 T662 Canine distemper virus, Dogs, Dosage, Drug therapy, Immunization, Infectious canine hepatitis, Inhibitors, Monoamine oxidase, Nialamide, Virus diseases (animals).

9694-69

HAZARD OF THE HIGH COUNTRY.

Colo Farm Home Res 19(3,APR-JUN):10-11 1969 100 C712CO

Brisket disease, Cattle, Electron microscopy, Heart failure, Livestock diseases, Oxygen.

INFLUENCE OF HOST GENOTYPE ON MOR-TALITY FROM LYMPHOID LEUKOSIS AND MAREK'S DISEASE AFTER ARTIFICIAL AND NATURAL EXPOSURE.

L B Crittenden B R Burmester Poultry Sci 48(1):196-204 REF

Jan 1969 47.8 AM33P

Animal genetics, Avian lymphomatosis, Chickens, Immunity, Leukosis, Poultry diseases, Virology, Virus diseases (animals).

9696-69

AVIAN REOVIRUSES II. PHYSICOCHEMICAL CHARACTERIZATION AND CLASSIFICA-TION.

D R Deshmukh B S Pomeroy Avian Dis 13(2):243-251 REF

May 1969 41.8 AV5

Avian diseases, Biophysics, Chemical analysis, Classification, Reoviruses.

9697-69

AVIAN REOVIRUSES, I. ISOLATION AND SEROLOGICAL CHARACTERIZATION.

D R Deshmukh B S Pomeroy

Avian Dis 13(2):239-243 May 1969 41.8 AV5

Avian diseases, Immunodiagnosis, Reoviruses, Serological tests.

9698-69

A MEDIUM FOR ISOLATION AND TENTA-OF IDENTIFICATION FECAL STREPTOCOCCI, AND THEIR ROLE AS AVIAN PATHOGENS.

C H Domermuth W B Gross

Avian Dis 13(2):394-399

May 1969 41.8 AV5

Avian diseases, Culture media, Feces, Streptocoe-

AN ISOLATION CABINET SYSTEM FOR AVIAN DISEASE RESEARCH.

L N Drury C W Beard S R Hopkins Avian Dis 13(2):400-412

May 1969 41.8 AV5

Avian diseases, Chiekens, Germ-free life, Laboratory equipment.

STRUCTURAL RELATIONSHIPS BETWEEN THE RNA OF MAMMARY TUMOR VIRUS AND THOSE OF OTHER RNA TUMOR VIRUSES.

P H Duesberg R D Cardiff

Virology 36(4):696-700 REF

Dec 1968 448.8 V81

Electrophoresis, Leukosarcomatosis, Mammary glands, Neoplasms, Proteins, Ribonucleic acid, RNA viruses, Virology, Virus diseases (animals).

PROTEIN IN THE BLOOD SERUM OF CHICKS EXPERIMENTALLY INFECTED SPIROCHAETOSIS. (BU)

1 Dumanov T Lozeva

Vet Med Nauk 5(3):41-49 REF

1968 41.8 V6468

Blood serum, Chieks, Hematologie diseases, Proteins, Spirochetosis. English and Russian summaries.

9702-69

RELATIONSHIP OF PARTICLE SIZE TO COC-CIDIOSTATIC EFFICACY OF BUQUINOLATE. M K Eekman R E Kohls

Avian Dis 13(2):297-308

May 1969 41.8 AV5

Buquinolate, Chickens, Coecidiosis, Coecidiostats, Drug therapy, Eimeria acervulina, Eimeria tenella, Partiele size determination.

CONGO RED AND TRYPAN BLUE AS STAINS FOR PLAQUE ASSAY OF NEW CASTLE DIS-EASE VIRUS.

J Estupinan R P Hanson

Avian Dis 13(2):330-339 REF

May 1969 41.8 AV5

Azo dyes, Biological assay, Newcastle disease virus, Plaque, Staining, Trypan hlue.

PRODUCTION OF STREPTOCOCCAL M-TYP-ING ANTISERA. I. ANTIGENIC RESPONSE IN DIFFERENT BREEDS OF RABBITS.

R R Facklam M D Moody

Appl Microbiol 16(12):1822-1825

Dec 1968 448.3 AP5

Animal diseases, Antigens, Antiserum, Immunization, Rabbits, Streptocoecus.

9705-69

HISTOPATHOLOGIC CHANGES INDUCED WITH DUCK HEPATITIS VIRUS IN THE DEVELOPING CHICKEN EMBRYO.

J E Fitzgerald L E Hanson J Simon

Avian Dis 13(1):147-157 REF

Feb 1969 41.8 AV5

Animal histology, Animal physiology, Chick embryos, Microscopy, Poultry diseases, Virus diseases (animals), Virus hepatitis.

SYNTHESIS OF URIDILIC NUCLEOTIDES AND TMP IN BONE MARROW OF CHICKS IN-FECTED WITH THE AVIAN MYELOBLASTO-SIS VIRUS.

G A Galegov N F Pravdina V A Parnes D K Karapetyan

Biochemistry 33(2,PT 2,MAR-APR):282-285 REF 1968 385 B523AE

Avian myeloblastosis virus, Bone marrow, Chieks, Enzymes, Ethyl-2-(hydroxymethyl)-1,3propanediol, 2-, Kinases, Nucleotides, Synthesis, Tables (data), Thymidine, Uridine, Virus diseases (animals). Translated from russian

9707-69

AN ATTEMPT TO ISOLATE HIGH POLYMERIZED DEOXYRIBONUCLEIC ACID FROM BRUCELLA ABORTUS.

S P E Geyser M J Pitout

S Afr Chem Inst J 21(2):164-173 REF

Oct 1968 385 SO84

Brucella abortus, Cattle, Culture media, Deoxyribonucleic acid, Spectrochemistry, Tables (data). Afrikaans summary.

VIRUS-LIKE PARTICLES OBSERVED PLASMA AND WHITE BLOOD CELLS FROM BIRDS WITH MAREK'S DISEASE.

R Glaser C N Burke T N Frederickson R E Luginbuhl

Avian Dis 13(2):261-267 May 1969 41.8 AV5

Avian lymphomatosis, Biological assay, Blood plasma, Chickens, Cytology, Electron microscopy, Virus diseases (animals).

AGGLUTINATING ANTIGEN FROM AN OR-NITHOSIS AGENT. II. MODIFICATION OF AN-TIGEN PREPARATION AND TEST PROCEDURE.

J E Grimes R W Moore L C Grumbles

Avian Dis 13(2):345-355 REF

May 1969 41.8 AV5

Agglutination, Antigens, Methodology, Ornithosis, Serological tests, Turkeys.

9710-69

BOVINE MYCOTIC PLACENTITIS IN NEW YORK STATE.

R B Hillman

Cornell Vet 59(2):269-288 REF

Apr 1969 41.8 C81

Abortion. Aspergillus fumigatus, Epidemiology, Livestoek diseases, Myeosis.

COLIC OF THE HORSE AND AUTONOMIC NERVOUS DISTURBANCES. PATHO-DISTURBANCES. MORPHOLOGICAL INVESTIGATIONS.

T Hirose H Satoh

Exp Rep Equine Health Lab (4):151-213 REF 1967 SF321.N5

Colic, Diagnosis, Horses, Livestock diseases, Morphology, Nerves, Research. Japanese translation.

STUDIES ON A FILTRABLE AGENT ASSOCIATED WITH INFECTIOUS ENTERITIS (BLUECOMB) OF TURKEYS.

M S Hofstad N Adams M L Frey

Avian Dis 13(2):386-393

May 1969 41.8 AV5

Biochemistry, Bluecomb, Immunodiagnosis, Turkeys.

SEROLOGIC AND IMMUNOLOGIC PROPER-TIES OF A RECENT ISOLATE OF INFECTIOUS BRONCHITIS VIRUS.

S R Hopkins

Avian Dis 13(2):356-362 REF

May 1969 41.8 AV5

Chiekens, Immunochemistry, Infectious bronchitis virus, Serological tests.

9714-69

ANTI-MALARIAL EFFECT OF INTERFERON INDUCERS AT DIFFERENT STAGES OF DEVELOPMENT OF PLASMODIUM BERGHEI IN THE MOUSE.

R I Jahiel B S Nussenzweig J Vanderberg J Vilcek

Nature 220(5168):710-711

16 Nov 1968 472 N21

Injections, Interferon, Laboratory animals, Malaria control, Mice, Newcastle disease virus, Parasitism, Plasmodium berghei, Statolon, Virus diseases (animals).

9715-69

VIRUS INDUCED CATARACTS.

R Jarman C Hanna C E Duffy Ark Acad Sci Proc 21:21-25 REF

1967 500 AR42

Cataracts, Eyes, Human diseases, Laboratory animals, Rats, Ribonucleic acid, Saint louis encephalitis, Virus diseases (animals).

9716-69

A NEW KALAFUNGIN, ANTIBIOTIC STREPTOMYCES PRODUCED TANASHIENSIS STRAIN KALA.

L E Johnson A Dietz

Appl Microbiol.16(12):1815-1821 REF

Dec 1968 448.3 AP5

Animal diseases, Antibioties, Bacteria, Culture media, Fungus diseases (animals), Kalafungin, Protozoa, Soil microorganisms, Streptomyces tanashiensis kala.

9717-69

AN ELECTRON MICROSCOPIC COMPARISON OF THREE STRAINS OF BOVINE PARAIN-FLUENZA-3 VIRUS.

D E Kahn J Kita J H Gillespie

Cornell Vet 59(3):431-438

Jul 1969 41.8 C81

Cattle, Electron microscopy, Parainfluenza-3, Virus mutation.

TETRACYCLINE HYDROCHLORIDE POWDER WITH BENZOCAINE FOR TOPICAL USE. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.

J K Kirk Fed Regist 34(38):2623

26 Feb 1969 L1.451

Cattle, Drug therapy, Ethyl aminobenzoate, Infeetious keratitis, Livestoek diseases, Tetraeyeline hydrochloride, Veterinary medicine.

9719-69

ACETAZOLAMIDE. DRUGS FOR VETERINA-RY USE; DRUG EFFICACY STUDY IMPLE-MENTATION.

Fed Regist 34(26):1839-1840

07 Feh 1969 L1.451

Acetazolamide, Dogs, Dosage, Drugs, Heart, Regulation (drugs), Veterinary medicine.

9720-69

AND THE PROPAGATION CYTOMORPHOLOGICAL **EFFECTS** BOVINE PARAINFLUENZA TYPE 3 VIRUS IN ORGAN CULTURES OF BOVINE FETAL TIS-SUES.

J Kita R M Kenney J H Gillespie Cornell Vet 59(3):355-369 REF

Jul 1969 41.8 C81

Animal morphology, Cattle, Parainfluenza-3, Pathology, Tissue culture.

9721-69

OCULAR SENSITIVITY OF DOGS TO TOPI-

CAL TETRACAINE HCL. S A Koch L F Rubin

Amer Vet Med Ass J 154(1):15-16

01 Jan 1969 41.8 AM3

Allergies, Antihistaminies, Chemosis, Diagnosis, Dogs, Drug therapy, Eyes, Tetracaine Tetracaine hydroehloride.

9722-69

EFFECT ON MORTALITY OF SEMIPURIFIED DIETS VERSUS NATURAL FEEDSTUFFS FED TO CHICKENS INFECTED WITH EIMERIA TENELLA.

A J Koltveit

Avian Dis 13(2):288-296 REF

May 1969 41.8 AV5

Chiekens, Coceidiosis, Diet, Eimeria tenella, Mor-

CYTOPLASMIC INCLUSIONS OBSERVED BY ELECTRON MICROSCOPY LATE IN INFLUENZA VIRUS INFECTION OF CHICKEN EMBRYO FIBROBLASTS.

J V Kopp J E Kempf A V Kroeger Virology 36(4):681-683 REF

Dec 1968 448.8 V81

Cells, Chickens, Cytoplasm, Electron microscopes, Embryology, Inclusion bodies, Influenza viruses, Tissues, Virus diseases (animals).

### 9724-69

A STUDY OF THE IMMUNOLOGICAL RELA-TIONSHIP OF ANAPLASMA MARGINALE AND ANAPLASMA CENTRALE.

K L Kuttler

Res Vet Sci 8(4):467-471, REF

Oct 1967 41.8 R312

Anaplasma centrale, Anaplasma marginale, Anaplasmosis, Calves, Cattle, Livestock diseases.

### 9725-69

A REPORT ON THE USE OF A SERUM PLATE ANTIGEN FOR THE DETECTION OF ANTIBODIES TO MYCOPLASMA GALLISEPTICUM.

K F Lawson R T Hertler

Poultry Sci 48(1):295-300

Jan 1969 47.8 AM33P

Antibodies, Antigens, Chickens, Hemagglutination-inhibition test, Immunology, Mycoplasma gallisepticum, Poultry diseases.

### 9726-69

HYDROCHLOROTHIAZIDE. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.

H L Ley

Fed Regist 34(36):2516

21 Feb 1969 L1.451

Cattle, Dosage, Drug therapy, Edema, Hydrochlorothiazide, Legislation, Livestock discases, Regulation (drugs), Research, Udders, Veterinary medicine.

### 9727-69

ATTEMPTED EXPERIMENTAL INDUCTION OF AMYLOIDOSIS IN CHICKENS.

D W MacDonald H C Carlson

Poultry Sci 48(1):71-76 REF

Jan 1969 47.8 AM33P

Amyloidosis, Cascin, Chickens, Culture media, Immunity, Poultry diseases, Staphylococcus aureus.

# 9728-69

EFFECT OF TRITON WR-1339 ON ROUS VIRUS-INDUCED TUMORS IN CHICKENS.

V W Mayer F M Hetrick

Cornell Vet 59(3):405-417 REF

Jul 1969 41.8 C81

Chickens, Dosage, Drugs, Neoplasms, Rous sar-coma virus.

### 9729-69

A FILTERABLE, PROLIFERATING FACTOR SIMULATING AUTOIMMUNITY IN MALARIOUS AND NONMALARIOUS DUCKLINGS.

R B McGhee W E Loftis

Exp Parasitol 22(3):299-308 REF

Jun 1968 436.8 EX7

Anemia, Blood plasma, Ducklings, Immunity, Malaria, Parasitology, Plasmodium lophurae, Virus diseases (animals).

# 9730-69

ARBOVIRUS FOCUS IN THE EAST KOOTENAYS. (ABSTRACT).

D M McLean

Can J Public Health 60(1):37

Jan 1969 449.8 P964

Antigens, Arboviruses, Dermacentor andersoni, Epidemiology, Forest insects, Hemagglutination-inhibition test, Ixodides, Mammals, Powassan virus, Rodents, Saint Iouis encephalitis, Serum, Virus diseases (animals).

9731-69

METABOLISM OF LINEAR ALKYLATE SUL-FONATE AND ALKYL BENZENE SULFONATE IN ALBINO RATS.

W R Michael

Toxicol Appl Pharmacol 12(3):473-485 REF May 1968 391.8 T662

Animal physiology, Biochemistry, Dosage, Feces, Gastrointestinal system, Metabolism, Metabolites, Rats, Sulfonic acids, Surface-active agents, Urine.

### 9732-69

PRELIMINARY OBSERVATIONS ON POSSIBLE SYNERGISM BETWEEN INFECTIOUS LARYNGOTRACHEITIS VIRUS AND HEMOPHILUS GALLINARUM.

Y S Mohamed P D Moorhead E H Bohl

Avian Dis 13(1):158-162

Feb 1969 41.8 AV5

Coryza, Haemophilus gallinarum, Infectious discases, Laryngotracheitis, Poultry, Poultry diseases, Respiratory diseases, Tissue culture.

### 9733-69

THE EFFECTS OF HYDROXYUREA ON CULTURED SOMATIC CELLS OF THE CHINESE HAMSTER, CRICETULUS GRISEUS.

C Neill W C Guest

Ark Acad Sci Proc 21:59-61

1967 500 AR42

Animal physiology, Biochemistry, Cells, Deoxyribonucleie acid, Hamsters, Hydroxyurea, Mitosis, Ribonucleie acid, Synthesis, Tables (data).

### 9734-69

MAMMARY DEVELOPMENT IN ALLOXAN DIABETIC RABBITS INJECTED WITH OESTRONE AND PROGESTERONE.

A Norgren

Lund Univ Acta Univ Lundensis Sect I I Med Math Sci Ker Nat (37):15P

1967 502 L97A

Alloxan, Animal physiology, Diabetes, Hormones, Injections, Mammary glands, Oestrone, Progesterone, Rabbits.

### 9735-69

THE FOOT AND MOUTH EPIDEMIC.

J Oekleshaw J M Hilton

Chartered Surv 101(1):42-43

Jul 1968 325.8 C38

Epidemiology, Foot-and-mouth disease, Livestock diseases. This article is the personal consideration of the author.

# 9736-69

S Oh-ishi

BLOOD CONCENTRATION OF CHLORAMPHENICOL IN HORSES AFTER INTRAMUSCULAR OR ORAL ADMINISTRATION. (JA)

Exp Rep Equine Health Lab (4):83-87

1967 SF321.N5

1967 SF321.NS

Animal physiology, Blood, Chloramphenicol, Horses, Hyaluronidase, Muscles. English and French summaries.

### 9737-69

TISSUE DISTRIBUTION OF SULFADIMETHOXINE AND SULFAMIONOMETHOXINE IN HORSES AFTER INTRAVENOUS INJECTION. (JA)

S Oh-ishi

Exp Rep Equine Health Lab (4):79-82

1967 SF321.N5

Blood vessels, Horses, Injections, Physiology, Sulfadimethoxine, Sulfameter, Tissues. English and French summaries.

### 9738-69

SEVERAL CONTROL MEASURES USED IN AN EPIZOOTIC OF TRANSMISSIBLE GASTROEN-TERITIS.

L D Olson

Cornell Vet 59(3):426-430

Jul 1969 41.8 C81

Animal quarantine, Epizootic diseases, Gastroenteritis, Immunization, Swine.

### 9739-69

COMPARISON OF COMMERCIAL AND AUTOGENOUS BACTERINS FOR CONTROL OF THE CRANIAL FORM OF FOWL CHOLERA IN TURKEYS.

L D Olson E L McCune R E Bond

Avian Dis 13(2):252-260

May 1969 41.8 AV5

Bacterins, Fowl cholera, Poultry diseases, Serological tests, Turkeys.

### 9740-69

OXIDATION OF METHYL- AND DIMETHYL-CARBAMATE INSECTICIDE CHEMICALS BY MICROSOMAL ENZYMES AND AN-TICHOLINESTERASE ACTIVITY OF METABOLITES.

E S Oonnithan J E Casida

J Agr Food Chem 16(1,JAN-FEB):28-44 REF 1968 381 J8223

Animal physiology, Carbamates, Cholinesterases, Enzymes, Insecticides, Liver, Metabolites, Microsomes, Oxidation, Rats.

### 9741-69

POLYMETHACRYLIC ACID: EFFECTS ON LYMPHOCYTE OUTPUT OF THE THORACIC DUCT IN RATS.

S Ormai E De Clereq

Science 163(3866):471-472

31 Jan 1969 470 SCI2

Animal physiology, Blood, Lymphocytes, Methaerylie acid, Polymers, Rats, Thorax.

### 9742-69

TULAREMIA IN THE WILDLIFE OF ARKAN-SAS.

L J Paulissen R R Corey D Swartz Ark Acad Sci Proc 21:39-44 REF

1967 500 AR42

Agglutination test, Animal vectors, Bacterial discases (animals), Human diseases, Pasteurella tularensis, Tularemia, Wildlife diseases.

### 9743-69

ATYPICAL FOCI OF HISTOMONIASIS LE-SIONS IN A STUDY OF DIRECT ORAL TRANS-MISSION.

D L Peardon J E Ware

Avian Dis 13(2):340-344 REF

May 1969 41.8 AV5

Animal disease transmission, Animal physiology, Blackhead, Turkeys.

### 9744-69

B PARATHIPHOSIS OF YOUNG PHEASANTS. (RUM)

L Petricia M Caroiu P Onica I Contiu P Nistor Bucharest Inst Agron Timesoara Lucari Stiint 6:329-338 REF

1963 106.4 T48

Epizootic diseases, Infectious diseases, Mortality, Pheasants, Poultry diseases, Salmonella typhimurium, Salmonellosis. Russian and English summary.

### 9745-69

CHARACTERIZATION OF FIVE ISOLATES OF MAREK'S DISEASE.

H G Purchase P M Biggs

Res Vet Sci 8(4):440-449 REF

Oct 1967 41.8 R312

Avian lymphomatosis, Chickens, Poultry diseases, Virus diseases (animals).

### 9746-69

ABSORPTION AND METABOLISM OF ANTI-MYCIN ADMINISTERED WITH A RAT DIET.

P O Ritter F M Strong

J Agr Food Chem 16(1,JAN-FEB):6-12 REF 1968 381 J8223 Absorption, Animal physiology, Antibiotics, Citrinin, Dict, Hydrogen, Isotopes, Metabolism,

# Radioactivity, Rats.

9747-69

THE ISOLATION OF BACTERIUM ANITRATUM (ACINETOBACTER ANITRATUS) AND MIMA POLYMORPHA

(ACINETOBACTER IWOFFI) FROM ANIMALS IN UGANDA.

H M Ross

Vet Rec 83(19):483-485 09 Nov 1968 41.8 V641

Achromobacter, Animals, Chickens, Microorgan-

9748-69

STUDIES ON COLIBACILLOSIS OF CALVES. VII. ADVISABILITY OF RE-VACCINATION.

F Schoenaers A Kaeckenbeeck Ann Med Vet 112(8):649-657 REF

Dec 1968 41.8 AN78

Antibodies, Calves, Colibacillosis, Colostrum, Immunization, Livestock diseases, Pregnancy. English

9749-69

ROLE OF INTERFERON IN EXPERIMENTAL MOUSE MALARIA.

W W Schultz K Y Huang F B Gordon Nature 220(5168):709-710 REF

16 Nov 1968 472 N21 Biochemistry, Injections, Interferon, Laboratory

animals, Malaria, Mice, Newcastle disease virus, Parasitism, Plasmodium berghei, Virus diseases (animals).

9750-69

A PLAQUE SYSTEM FOR STUDY OF INFECTIOUS LARYNGOTRACHEITIS VIRUS IN ADULT CHICKEN KIDNEY CULTURES.

J M Sharma L G Raggi Avian Dis 13(2):268-279 REF

May 1969 41.8 AV5

Chickens, Infectious laryngotracheitis Plaque, Scrodiagnosis, Tissue culture.

ELECTRON MICROSCOPY OF RICE TRANSI-TORY YELLOWING VIRUS.

E Shikata M J Chen J Virology 3(2):261-264 REF Feb 1969 OR360.J6

Electron microscopy, Plant physiology, Rice, Virus diseases (plants), Yellows.

CARDIOVASUCLAR STUDIES ON COPPER DEFICIENT SWINE. XII. PARTIAL PURIFICA-TION OF A SOLUBLE PROTEIN RESEMBLING ELASTIN.

D W Smith N Weissman W H Carnes Biochem Biophys Res Commun 31(3):309-315 REF

10 May 1968 442.8 B5236

Amino acids, Animal nutrition, Circulatory system, Copper, Deficiency diseases, Elastin, Electrophoresis, Proteins, Purification, Swine, Temperature.

9753-69

ELECTRO-CARDIOGRAM IN A CARDIAC DIS-ORDER IN CATTLE.

T P Suresh T R S Rangachar V R Hegde Mysore J Agr Sci 2(1):17-22

1968 S19.M9

Cattle, Electrocardiograms, Heart diseases, Laboratory animals, Livestock diseases.

THE RATE OF BREAKDOWN OF METHYL METHANESULPHONATE, DIMETHYL SULPHATE AND N-METHYL-N-NITROSOU-REA IN THE RAT.

P F Swann

Biochem J 110(1):49-52 REF

Nov 1968 382 B52

Biochemistry, Blood, Chemical reactions, Decomposition, Dimethyl sulfate, Injections, Methyl methanesulfonate, Mcthyl-1-nitrosourea, 1-, Rats.

9755-69

FLUORIDE TOXICITY IN THE CHICK.

C W Weber A R Doberenz B L Reid Poultry Sci 48(1):230-235 REF

Jan 1969 47.8 AM33P

Animal nutrition, Chicks, Deficiency diseases, Fluorides, Toxins.

IN VIVO SUSCEPTIBILITY OF SALMONELLA PANAMA TO POLYMYXIN B SULFATE AND COMBISTREP.

B J Williams O E Bentley

Avian Dis 13(2):412-414

May 1969 41.8 AV5

Antibiotics, Biological assay, Polymyxin b sulfate, Salmonella panama, Turkeys.

MUTATIONS OF THE WESTERN EQUINE EN-CEPHALOMYELITIS VIRUS (WEE) INDUCED BY CHEMICAL MUTAGENS. (RUS)

G D Zasukhina W P Marinina

Genetika (5):166-168 1967 OH431.A1G4

Adenine nucleotides, Formaldehyde, Mutagens, Mutations, Nitrosomethylurea, N-, Virus diseases (animals), Western equine encephalomyelitis virus. English summary

## **ARTHROPODS**

9758-69

A 10-YEAR SURVEY OF TRINIDADIAN ARTHROPODS FOR NATURAL VIRUS INFEC-TIONS (1953--1963).

T H G Aitken L Spence A H Jonkers W G Downs

J Med Entomol 6(2):207-215

May 1969 421 J828

Acarina, Arboviruses, Culicidae, Diptera, Insect vectors, Siphonaptera, Surveys, Virus diseases (animals).

9759-69

THE EFFECT OF DDT ON REPRODUCTION IN MICE.

M S Cannon L C Holcomb Ohio J Sci 68(1):19-24

Jan 1968 410 OH3

Animal physiology, Biological assay, Chlorinated hydrocarbons, DDT, Insecticides, Mice, Reproduction, Toxicology.

9760-69

TICKS (IXODOIDEA) OF DOMESTICS ANIMALS IN IRAQ. PART 7. SEASONAL IN-DOMESTICS CIDENCE ON CATTLE, SHEEP AND GOATS IN THE TIGRIS-EUPHRATES VALLEY PLAIN. J Robson J M Robb N J Hawa T Al-Wahayyib

J Med Entomol 6(2):127-130 MAP

May 1969 421 J828

Insect identification, Ixodoidea, Livestock.

Based on collections totalling 78,247 ticks from 4,349 animals, cattle, sheep and goats carried more Hyalomma and Boophilus in summer and autumn than in either spring or winter. Rhipicephalus were more prevalent in spring and summer as compared to autumn and winter. The only purely scasonal tick species on these animals was H. detritum, which occurred in summer only.

STUDIES ON THE SAFETY OF PLASTIC DOG COLLARS CONTAINING DICHLORVOS.

A 1 T Walker D E Stevenson Vet Rec 83(21):538-541 23 Nov 1968 41.8 V641

Blood tests, Cholinesterases, Dichlorvos, Dogs, Insecticides, Organophosphorus compounds.

# **PARASITES**

9762-69

EVALUATION OF PARBENDAZOLE, A NEW BROAD SPECTRUM ANTHELMINTIC SWINE AND SHEEP.

E G Batte D J Moncol

Vet Med/small Anim Clin 63(10):984-985

Oct 1968 41.8 M69

Anthelmintics, Dosage, Drenches, Drug therapy, Feed additives, Helminthiasis, Parbendazole, Sheep, Swine.

FINE STRUCTURAL I.OCALIZATION OF ACID PHOSPHATASE AND ARYL SULFATASE ACTIVITIES IN THE INTERMEDIATE LAYER OF HYMENOLEPIS DIMINUTA CYSTICERCOIOS. B J Bogitsh

Amer Microscop Soc Trans 88(3):411-419

Jul 1969 440.9 AM33

Acid phosphatase, Arylsulfatase, Biochemistry, Cytology, Hymenolepis diminuta.

A NEW GENUS AND SPECIES, PSILOTORNUS AUDACIRRUS (TREMATODA: DIGENEA: PSILOSTOMATIDAE), FROM THE WILD TUR-KEY IN ALABAMA.

E E Byrd A K Prestwood

Amer Microscop Soc Trans 88(3):366-369

Jul 1969 440.9 AM33

Taxonomy, Trematoda, Turkeys.

9765-69

CHANGES IN SEX RATIO IN HAEMONCHUS CONTORTUS CAYUGENSIS.

H D Crofton J H Whitlock

Cornell Vet 59(3):388-392

Jul 1969 41.8 C81

Haemonchus contortus, Population, Sex ratios, Surveys.

THE EFFECT OF TIME AND SEASON ON THE CONSTANCY OF MORPHOLOGY IN CONSTANCY OF MORPHOLOGY IN HAEMONCHUS CONTORTUS CAYUGENSIS INFECTIONS.

H D Crofton J H Whitlock Cornell Vet 59(3):393-397

Jul 1969 41.8 C81

Haemonchus contortus, Morphology, Nematodes.

PELECITUS CEYLONENSIS N.SP., FROM THE CHICK AND ASH-DOVE EXPERIMENTALLY INFECTED WITH LARVAE FROM MANSONIA CRASSIPES, AND FROM NATURALLY-IN-FECTED CROWS IN CEYLON.

A S Dissanaike

Ceylon J Sci Biol Sci 7(1/2):96-104 REF

Oct 1967 475 C33

Birds, Chicks, Crows, Insect physiology, Insect vectors, Larvae, Mansonia crassipes, Pelecitus ceylonensis, Pigeons.

9768-69

A COMPARATIVE STUDY OF THE EFFECTIVENESS OF CHEMICAL OVICIDES ON THE SURVIVAL OF THE SOIL-TRANSMITTED IN-TESTINAL NEMATODES.

A M Mango

Diss Abstr Sect B 29(3):1078B

Scp 1968 Z5055.U49D53

Ancylostoma caninum, Ascaris lumbricoides, Biochemistry, Chemical control (nematodes), Hydrogen-ion concentration, Larvae, Livestock, Nematodes, Ovicides, Soils, Strongyloides fulleborni, Temperature, Trichuris vulpis.

EFFECT OF THE TAPEWORM HYMENOLEPIS NANA ON IMMUNITY TO TU-BERCULOSIS IN MICE.

R J Olds

J Hvg 67(2):233-239 REF

Jun 1969 449.8 J82

Hymenolepis nana, Immunity, Mice, Tuberculosis.

9770-69

STUDIES ON TWO FLUKE INFECTIONS OF THE INTESTINAL TRACT IN BUFFALO-CALVES (BELOW TWO YEARS OF AGE) WITH FURTHER OBSERVATIONS ON HISTOPATHOLOGY.

B P Pande B B Bhatia G S Arora

Indian J Vet Sci Anim Hush 38(3):463-470 REF Sep 1968 41.8 IN22

Buffaloes, Calves, Livestock diseases, Paramphistomum explanatum, Parasitism, Schistosoma spindale, Trematoda.

### 9771-69

STUDIES ON STEPHANOFILARIASIS IN ORIS-SA. II. DERMATITIS DUE STEPHANOFILARIA ASSAMENSIS PANDE, 1936, IN THE MURRAH BUFFALO (BOS BU-BALIS) AND THE BEETAL BUCK (CAPRA HIR-CUS) WITH REMARKS ON THE MORPHOLO-GY OF THE PARASITE.

B Patnaik S P Roy

Indian J Vet Sci Anim Hush 38(3):455-462 REF Sep 1968 41.8 IN22

Buffaloes, Dermatitis, Filariasis, Helminths, Livestock diseases, Morphology, Parasitism, Sheep, Stephanofilaria assamensis.

### 9772-69

STUDIES ON GEOGRAPHICAL DISTRIBU-TION AND ECOLOGY OF LYMNAEA AURICU-LARIA VAR. RUFESCENS, THE INTER-MEDIATE HOST OF FASCIOLA GIGANTICA

M M Patnaik S K Ray

Indian J Vet Sci Anim Hush 38(3):484-506 MAP

Sep 1968 41.8 IN22

Animal vectors, Cattle, Distribution, Ecology, Fasciola, Fascioliasis, Host specificity, Livestock diseases, Snails.

STUDIES ON EIGHT MORPHOLOGICAL VARIANT FEMALES OF HAEMONCHUS SIMILIS TRAVASSOS, 1914 (NEMATODA, TRICHOSTRONGYLIDAE) FROM INDIAN CATTLE (BOS INDICUS).

S R Rao M A Ghafoor

Indian J Vet Sci Anim Hush 38(3):471-477 REF Sep 1968 41.8 IN22

Cattle, Haemonchus similis, Morphology, Nematodes, Trichostrongylidae.

### 9774-69

GNATHOSTOMULIDA FROM AMERICA.

R J Riedl

Science 163(3866):445-452 REF

31 Jan 1969 470 SCI2

Anatomy, Ecology, Gnathostomulida, Physiology, Taxonomy, Zoogeography.

# 9775-69

PARBENDAZOLE IN TREATMENT OF IN-TESTINAL NEMATODES OF DOGS AND MON-KEYS.

V J Theodorides M Laderman

Vet Med/small Anim Clin 63(10):985

Oct 1968 41.8 M69

Ancylostoma, Dipylidium, Dogs, Dosage, Drug therapy, Intestines, Monkeys, Nematodes, Oesophagostomum, Parasitism, Parhendazole, Physaloptera, Strongyloides, Taenia, Toxocara, Trichostrongylus, Trichuris, Uncinaria.

RESEARCH NOTE-INCIDENCE OF INFEC-TION BY GASTROTAENIA CYGNI (CESTODA: APORIDEA) OF WATERFOWL IN EASTERN COLORADO.

W B Willers O W Olsen Avian Dis 13(2):415-416

May 1969 41.8 AV5

Aquatic hirds, Cestodiasis.

# COMMODITY PROTECTION STORAGE DISEASES

### 9777-69

INCUBATION OF PERIOD PHYTOPHTHORA CITROPHTHORA IN CITRUS FRUITS STORED AT DIFFERENT TEMPERATURES.

M Schiffman-Nadel E Cohen Phytopathology 59(2):237-238

Feb 1969 464,8 P56

Brown rot, Citrus, Fruit, Fungus diseases (plants), Incubation, Phytophthora citrophthora, Storage diseases, Temperature.

# **ARTHROPODS**

### 9778-69

BIONOMICS OF ANDROLAELAPS CASALIS (BERLESE) (ACARINA: LAELAPIDAE) A PREDATOR OF MITE PESTS OF STORED CEREALS.

P.S. Barker

Can J Zool 46(6):1099-1102

Nov 1968 470 C16D

Acarus siro, Androlaelaps casalis, Biological control (insects), Glycyphagus domesticus, Grain, Insect pests, Mites, Predaccous insects, Stored products, Temperature, Tribolium confusum, Tyrophagus putrescentiae.

### 9779-69

COCKROACHES (BLATTARIA) AS VECTORS OF FOOD POISONING AND FOOD INFECTION ORGANISMS.

M E Rueger T A Olson

J Med Entomol 6(2):185-189

May 1969 421 J828

Food poisoning, Insect vectors, Periplaneta americana, Salmonella, Shigella, Staphylococcus au-

RECORDS OF COLEOPTERA ASSOCIATED WITH STORED PRODUCTS IN AUSTRALIA. R G Winks

Entomol Soc Australia (usw) J 8(1):110-112 30 Jun 1969 423.92 EN84

Coleoptera, Grain, Stored product insects, Surveys.

### MICROBIAL CONTAMINATION

### 9781-69

SOME THOUGHTS CONCERNING THE SAL-MONELLA PROBLEM. (GE)

1 Bischoff

Arch Lebensmittelhyg 19(4):83

Apr 1968 41.8 L49

Conferences, Eggs, Feed, Fish meal, Flour, Food contamination, Food sanitation, Foreign trade, Import control, Infectious diseases, Poultry products, Salmonella.

### 9782-69

AFLATOXIN-PRODUCING POTENTIAL OF FUNGI ISOLATED FROM CURED AND AGED MEATS.

L B Bullerman J C Avres

Appl Microbiol 16(12):1945-1946

Dec 1968 448.3 AP5

Aflatoxin, Aging, Aspergillus flavus, Aspergillus parasiticus, Curing, Food contamination, Fungi, Meat

### 9783.69

THE SOURCES AND EXTENT OF SALMONEL-LA CO PLANTS. CONTAMINATION IN RENDERING

J Timoney

Vet Rec 83(21):541-543

23 Nov 1968 41.8 V641

Animal diseases, Animal nutrition, Food contamination, Salmonella.

### 9784-69

ON THE PROBLEM OF CONTAMINATION WITH SALMONELLAE FOODSTUFFS AND FEEDS. (BU)

V Vesselinov

Vet Med Nauk 5(3):111-115

1968 41.8 V6468

Bacteria, Fced, Food contamination, Microbial contamination, Salmonella.

# RESIDUES

### 9785-69

GAS CHROMATOGRAPHIC ANALYSIS OF (O-(2,5-DICHLORO-4-CIBA C-9491 IODOPHENYL)O,O-DIMETHYL PHOSPHOROTHIOATE), ITS OXYGEN ANALOG, AND ITS PHENOLIC HYDROLYSIS PRODUCT IN SWEET CORN AND MILK.

M C Bowman M Beroza

J Agr Food Chem 16(2,MAR-APR):280-283

1968 381 J8223

Chromatography, Corn, Dichloro-4-iodophenyl) O,O-dimethyl phosphorothioatc, O-( f, Gases, Hydrolysis, Milk, Oxygen, Pesticide residues,

# 9786-69

NOTICE OF FILING OF PETITION REGARD-ING PESTICIDE CHEMICALS.

R E Duggan

Fed Regist 34(59,PT 1):5752 27 Mar 1969 L1.451

Agricultural products, Benzene, Chromatography, Fruit, Fungicides, Pesticide analysis, Pesticide Tetrachlorocthyl)thio)-4-cyclohexeneresidues. 1,2-dicarhoximide, cist.

NOTICE OF FILING OF PETITION REGARD-ING PESTICIDE CHEMICALS.

R E Duggan

Fed Regist 34(44):4899

06 Mar 1969 L1.451

Chemicals, Chromatography, Mung heans, Pesticide residues, Pesticides, Plant regulators, Regulation (pesticides), Trifluralin.

### 9788-69

NOTICE OF FILING OF PETITION REGARD-ING PESTICIDE CHEMICALS.

R E Duggan

Fed Regist 34(48):5128

12 Mar 1969 L1.451

Agricultural products, Butylphcnoxy)cyclohexyl 2propynyl sulfite, 2-(p-tert-, Chemicals, Pesticide residues, Pesticides, Raw materials, Sulfites. Tolerances, Walnuts.

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODI-TIES. NOREA.

R E Duggan

Fed Regist 34(51):5291-5292

15 Mar 1969 L1.451

Agricultural products, Chemicals, Cottonseed, Herhicide residues, Norea, Pesticide residues, Pesticides, Raw materials, Sorghum, Soyheans, Spinach, Sugarcane, Tolerances.

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. 0,0-DIMETHYL \$-(4-OX0-1,2,3-BENZOTRIAZIN-3(4H)-YLMETHYL) PHOSPHORODITHIOATE.

R E Duggan

Fed Regist 34(50):5255

14 Mar 1969 L1.451

Agricultural products, Azinphosmethyl, Chemicals, Organophosphorus compounds, Pesticide

## RESIDUES

9791-69

residues, Pesticides, Raw materials, Tolerances, Tomatoes.

9791-69

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES.

2-(P-TERTBUTYLPHENOXY)CYCLOHEXYL 2-PROPYNYL SULFITE.

R E Duggan

Fed Regist 34(51):5291

15 Mar 1969 L1.451

Agricultural products, Apples, Butylphenoxy)eyelohexyl 2-propynyl sulfite, 2-(p-tert-, Chemicals, Insecticides, Peaches, Pears, Pesticide residues, Pesticides, Plums, Prunes, Public health, Raw materials, Sulfites, Tolerances.

9792-69

NOTICE OF FILING OF PETITION FOR FOOD ADDITIVE BUQUINOLATE.

R E Duggan

Fed Regist 34(25):1784

06 Feb 1969 L1.451

Buquinolate, Chickens, Drugs, Food additives, Meat, Pesticide residues.

9793-69

IDENTIFICATION AND QUANTITATIVE EVALUATION OF ANTIBIOTIC RESIDUES IN CHICKENS FED ON A SPIRAMYCIN DIET.

G R Jolles B I. Terlain

J Agr Food Chem 16(1,JAN-FEB):60-64

1968 381 J8223

Antibiotics, Chickens, Chromatography, Diet, Residues, Spiramycin, Streptomyces ambofaciens, Volumetric analysis.

9794-69

NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.

J K Kirk

Fed Regist 33(38):2623-2624

26 Feb 1969 L1.451

Agricultural products, Carbamates, Carbofuran, Insecticide residues, Pesticides, Raw materials, Regulation (pesticides).

9795-69

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. 2-ETHYLAMINO-4-ISOPROPYLAMINO-6-METHYLTHIO-S-TRIAZINE.

J K Kirk

Fed Regist 34(38):2608

26 Feb 1969 L1.451

Agricultural products, Bananas, Chemicals, Ethylamino)-4-(isopropylamino)-6-(methylthio)-striazine, 2-, Pesticide residues, Pesticides, Pineapples, Potatoes, Raw materials, Sugareane, Tolerances, Triazines, Tropical fruit.

9796-69

CONCENTRATION OF TWO 1,4-BENZOX-AZINONES IN DENT CORN AT VARIOUS STAGES OF DEVELOPMENT OF THE PLANT AND ITS RELATION TO RESISTANCE OF THE HOST PLANT TO THE EUROPEAN CORN BORER.

J A Klun J F Robinson

J Econ Entomol 62(1):214-220 REF

17 Feb 1969 421 J822

Benzoxazinone compounds, Biochemistry, Corn, Insect pests, Insecticide residues, Methoxy-2-benzoxazolinone, 6-, Ostrinia nubilalis, Plant geneties, Plant morphology, Plant pest resistance.

9797-69

FOOD ADDITIVES PERMITTED IN FOOD FOR HUMAN CONSUMPTION. ADJUVANTS FOR PESTICIDE USE DILUTIONS.

H L Ley

Fed Regist 34(61):5930

29 Mar 1969 L1.451

Coeonuts, Ethylene diehloride, Food additives, Food consumption, Pesticides, Regulation (pesticides), Residues.

9798-69

FATE OF C14-MALEIC HYDRAZIDE IN RATS. D L Mays G S Born J E Christian B J Liska J Agr Food Chem 16(2,MAR-APR):356-357 1968 381 J8223

Animal physiology, Biochemistry, Blood, Carbon compounds, Carbon isotopes, Feees, Maleie hydrazide, Rats, Tissues, Urinc.

9799-69

EFFECT OF 2,4-D ON INCORPORATION OF 14C INTO URINARY METABOLITES FROM RATS RECEIVING 14C-LABELED ACETATE. W W Philleo S C Fang

J Agr Food Chem 16(2,MAR-APR):358-360 1968 381 18223

Acetates, Animal physiology, Biochemistry, Carbon isotopes, D, 2,4-, Metabolites, Rats, Urinc.

9800-69

COLORIMETRIC METHODS FOR DETER-MINATION OF SIMAZINE AND RELATED CHLORO-S-TRIAZINES.

M T H Ragab J P McCollum

J Agr Food Chem 16(2,MAR-APR):284-289 REF 1968 381 J8223

Chlorinated hydrocarbons, Colorimetry, Pesticide residues, Simazine, Triazines.

9801-69

INHIBITION OF BEEF LIVER HYDROLYTIC ENZYMES BY ORGANOPHOSPHORUS PESTICIDES, QUANTAL INHIBITION CHARACTERISTICS OF SEVERAL ORGANOPHOSPHORUS COMPOUNDS, USING ONITROPHENYL BUTYRATE AS SUBSTRATE.

D C Villeneuve W P McKinley

J Agr Food Chem 16(2,MAR-APR):290-294 REF 1968 381 J8223

Cattle, Enzymes, Hydrolysis, Inhibitors, Liver, Nitrogen compounds, Nitrophenyl butyrate, o-, Organophosphorus compounds, Pesticide residues, Substrates.

9802-69

CHROMATOGRAPHIC DETERMINATION OF 4-TRIFLUOROMETHYL-2,4-DINITRODIPHEN-YL ETHER RESIDUES IN SOYBEANS.

J P Walter M L Kerehersid M G Merkle J Agr Food Chem 16(1,JAN-FEB):143-144 1968 381 J8223

Chromatography, Ethers, residues, Soybeans, dinitrodiphenyl ether, 4-.

# TOXICOLOGY

9803-69

STUDIES WITH CALCIUM ETHYLENEDIAMINETETRAACETATE IN CALVES; TOXICITY AND USE IN BOVINE LEAD POISONING.

A L Aronson P B Hammond A C Strafuss Toxicol Appl Pharmacol 12(3):337-349 REF May 1968 391.8 T662

Blood plasma, Calcium ethylencdiaminetetraaectate, Cattle, Dosage, Drug therapy, Lead poisoning, Metabolism, Toxicology, Urinc.

9804-69

MCD-PEPTIDE FROM BEE VENOM: ISOLA-TION, BIOCHEMICAL AND PHARMACOLOGI-CAL PROPERTIES. (GE)

H Brcithaupt E Habermann

Naunyn-Schmiedebergs Arch Pharmakol Exp Pathol 261(3):252-270 REF

30 Sep 1968 448.8 AR2

Bec venom, Biochemistry, Blood pressure, Capillaries, Cells, Chromatography, Histamine, Peptides, Permeability, Pharmacology, Rats, Surface-active agents, Tissues. English summary.

9805-69

ORGANOPHOSPHORUS POISONING. SOME PROPERTIES OF AVIAN ESTERASES.

P J Bunyan D M Jennings A Taylor

J Agr Food Chem 16(2,MAR-APR):326-331 REF 1968 381 J8223

Esterases, Organophosphorus compounds, Pheasants, Phorate, Pigeons, Properties, Toxicology.

9806-69

ORGANOPHOSPHORUS POISONING. DIAGNOSIS OF POISONING IN PHEASANTS OWING TO A NUMBER OF COMMON PESTICIDES.

P J Bunyan D M Jennings A Taylor

J Agr Food Chem 16(2,MAR-APR):332-339 REF 1968 381 J8223

Azinphosmethyl, Chlorfenvinphos, Diagnosis, Diazinon, Dimethoate, Ethion, Methyl demeton, Organophosphorus compounds, Pesticides, Pheasants, Toxicology.

9807-69

EFFECT OF O,P'-DDD AND METYRAPONE (SU-4885) ON DEVELOPMENT OF RENAL HYPERTENSION IN RATS.

M J Fregly

Toxicol Appl Pharmacol 12(3):548-559 REF

May 1968 391.8 T662

Biochemistry, Diehloro-2-(o-ehlorophenyl)-2-(p-ehlorophenyl)ethane, 1,1-, Diet, Dosage, Hypertension, Hypertrophy, Kidneys, Laboratory animals, Mctyrapone, Rats, Toxicology.

9808-69

STUDIES ON THE ACTION OF HIGH CONCENTRATIONS OF ALKYLPOLYGLYCOL ETHERS ON FISH. (GE)

C Gloxhuber W K Fischer

Food Cosmet Toxicol 6(4):469-477 REF

Dec 1968 391.8 F73

Absorption, Detergents, Fish, Lethal factor, Toxicology, English and French summaries.

9809-69

ENVENOMATION BY THE SPIDERS CHIRACANTHIUM INCLUSUM AND ARGIOPE AURANTIA.

J R Gorham T B Rhency

Jama (j Amer Med Ass) 206(9):1958-1962 MAP REF

25 Nov 1968 448.9 AM37

Arachnida, Argiope aurantia, Chiraeanthium inclusum, Drug therapy, Epidemiology, Public health, Spider venom, Spiders, Zoogeography.

9810-69

ACUTE AND SUBCHRONIC TOXICITY OF A NEW FLUORINE PESTICIDE, N-METHYL-N-(I-NAPHTHYL) FLUOROACETAMIDE.

Y Hashimoto T Makita H Miyata T Noguchi G Ohta

Toxicol Appl Pharmacol 12(3):536-547 May 1968 391.8 T662

Acaricides, Animal physiology, Dosage, Fluorine, Fluoro-N-methyl-N-(1-naphthyl)acctamide, 2-, Insecticides, Laboratory animals, Toxicology.

9811-69

STIMULATION OF HEPATIC MICROSOMAL DRUG-METABOLIZING ENZYMES BY ALPHA, ALPHA-BIS-(P-CHLOROPHENYL)-3-PYRIDINEMETHANOL AND A METHOD FOR DETERMINING NO-EFFECT LEVELS IN RATS. D G Hoffman H M Worth R C Anderson

May 1968 391.8 T662 Animal physiology, Bis(p-chlorophenyl)-3pyridinemethanol, alpha,alpha-, Diet, Dosage, Drugs, EPN, Enzymes, Metabolism, Nitroanisole, p-, Organophosphorus compounds, Rats, Statistical

Toxicol Appl Pharmacol 12(3):464-472 REF

9812-69

STUDIES ON LABELED ANIMAL POISONS. II.
DISTRIBUTION OF THE VENOMS OF VARIOUS SPIDERS LABELED WITH SE75 AND P32
IN THE GUINEA PIG.

D Lebez Z Maretie F Gubensek J Kristan Toxicon 5(4):261-262

May 1968 391.8 T66

analysis, Toxicology.

Electrophoresis, Guinea pigs, Isotopes, Latrodectus mactans, Phosphorus, Physiology, Radioactivity, Selenium, Spiders, Steatoda paykulliana, Venoms.

9813-69

EQUI-THESIN, GENERAL ANESTHETIC. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.

H.L. Lev

Fed Regist 34(43):3861

05 Mar 1969 L1.451

Accident prevention, Anesthetics, Cattle, Chloral hydrate, Dosage, Drug therapy, Horses, Magnesium sulfate, Pentoharbital.

9814-69

PRELIMINARY STUDIES ON TOXICITY OF RONNEL-DOW ET 57 IN SHEEP.

A Malaki A Jilek

Mysore J Agr Sci 2(1):56-58

1968 S19.M9

Drug therapy, Hypoderma, Ronnel, Sheep, Systemic insecticides, Toxicity.

9815-69

A SIMPLE BIOASSAY FOR DETECTION OF AFLATOXIN IN MILK.

A M Mayer A Polijakoff-Mayber P Robinson l Slowatizky

Toxicon 7(1):13-14

Jun 1969 391.8 T66

Aflatoxin, Biological assay, Methodology, Milk.

9816-69

PRELIMINARY STUDIES ON VENOM FROM THE BROWN RECLUSE SPIDER LOXOSCELES RECLUSA.

P N Morgan

Toxicon 6(3):161-165 REF

Feh 1969 391.8 T66

Guinea pigs, Loxosceles reclusa, Mice, Rabbits, Rats, Toxicology, Venoms.

9817-69

THE ACUTE TOXICITY OF OCHRATOXIN A TO RATS.

F H Purchase J J Theron

Food Cosmet Toxicol 6(4):479-483 REF

Dec 1968 391.8 F73

Aspergillus ochraccus, Fungus cultures, Lethal factor, Ochratoxin, Rats, Toxicology. French and German summaries.

9818-69

TOXICOLOGICO-HYGIENIC CHARACTERISTICS OF THE AMINE SALT OF 2,4-D (LITERATURE SURVEY). (RUS)

E G Sharina L I Smirnova

Vup Pitan 27(3,MAY-JUN):57-62 REF

1968 389.8 V89

Amines, D, 2,4-, Hygiene, Phenoxy acid compounds, Salts, Toxicology.

9819-69

EXPERIMENTAL PRODUCTION OF HEINZ BODIES IN THE PIG.

D Sinha S D Sleight

Toxicol Appl Pharmacol 12(3):435-439

May 1968 391.8 T662

Animal physiology, Diagnosis, Erythrocytes, Heinz bodies, Hematologic diseases, Hydrazine compounds, Hydroxylamine, Nitrites, Swine, Toxicology.

9820-69

DETERMINATION OF HYDROLYTIC METABOLITES OF ORGANOPHOSPHORUS INSECTICIDES IN COW URINE USING AN IMPROVED THERMIONIC DETECTOR.

L E St. John D J Lisk

J Agr Food Chem 16(1 JAN-FEB):48-49

1968 381 J8223

Animal physiology, Dairy cattle, Diethyl phosphate, Dimethyl phosphate, Hydrolysis, Insecticides, Metabolites, Organophosphorus compounds, Thiophosphates, Urine.

9821-69

ANTHELMINTIC EFFICACY AND TOXICITY STUDIES OF I-TETRAMISOLE IN FEEDLOT CATTLE.

T A Stolfus

Vet Med/small Anim Clin 63(10):986

Oct 1968 41.8 M69

Anthelmintics, Cattle, Dosage, Drug therapy, Helminthiasis. Ocsophagostomum, Onchocerca gibsoni, Parasitism, Stomach, Tetramisole, Thiazolylhenzimidizole, 2-(4-, Toxicology.

9822-69

ACUTE RADIOTOXICITY OF 144CE-144PR AFTER INTRAVENOUS ADMINISTRATION TO SHEEP.

D J Sullivan T P McDonald M C Bell Cornell Vet 59(2):236-249 REF

Apr 1969 41.8 C81

Animal physiology, Bone marrow, Cerium isotopes, Injections, Radiation, Radioisotopes, Sheep, Soil contamination, Toxicology.

9823-69

THE ORAL TOXICITY OF DIELDRIN TO THE CROWNED GUINEA-FOWL, NUMIDA MELEAGRIS (L.).

1 H Wiese N C J Basson

S Afr J Agr Sci 10(3):697-705 REF

Sep 1967 24 SU3

Chlorinated hydrocarbons, Dieldrin, Dosage, Guinca fowl, Poultry, Toxicity.

The toxicity of dieldrin to the erowned guinea fowl at different dietary levels was investigated and compared to its toxicity to other wild and domestic fowl in South Africa.

# PLANT PHYSIOLOGY & BIOCHEMISTRY

9824-69

PLANT HORMONES AND FLOWERING IN COFFEE.

R van der Veen

Acta Bot Neer 17(5):373-376

Oct 1968 450 AC822

Coffee, Gibberellie acid, Plant budding, Plant dormancy, Plant hormones, Plant physiology, Plant regulators, Weather.

9825-69

UPTAKE OF VITAVAX (DCMO) BY GER-MINATING COTTONSEED.

A I Allam P E Schilling J B Sinelair Phytopathology 59(2):265-266 REF

Feb 1969 464.8 P56

Chemical control (plant diseases), Cottonsced, Dihydro-5-earboxanilido-6-methyl-1,4-oxathiin, 2,3-, Dosage, Fungicides, Fungus diseases (plants), Plant translocation, Rhizoctonia solani, Seed germination, Seed treatment, Systemic fungicides.

9826-69

COLCHICINE-INDUCED MUTATIONS IN A TRISPECIFIC NICOTIANA HYBRID.

K Apparao D M Gopinath

Can J Genet Cytol 10(4):782-787

Dec 1968 443.8 C16

Biosynthesis, Chromosomes, Colehieine, Nicotiana forgetiana, Nicotiana glauca, Nicotiana longiflora, Plant breeding, Plant morphology, Plant mutation.

9827-69

EFFECTS OF RATE, TIME, AND METHOD OF APPLICATION OF TIBA ON SOYBEAN PRODUCTION.

M E Bauer T G Sherbeck A J Ohlrogge Agron J 61(4,JUL-AUG):604-606

Aug 1969 4 AM34P

Plant growth regulator, Plant morphology, Soyheans, Triiodobenzoic acid, 2,3,5-.

9828-69

EFFECT OF CHLOROCHOLINE CHLORIDE ON THE GROWTH CHARACTERISTICS, LODGING AND YIELD OF RICE.

B Das A C Vig D R Bhumbla

Prog Farming 5(1):33-39

Mar 1968 S19.P8

Chlorocthyl)trimethylammonium chloride, (2-, Crop yields, Fertilizers, Nitrogen, Nodules (plants), Plant biochemistry, Plant physiology, Rice.

9829-69

INFECTION STRUCTURES FROM RUST UREDIOSPORES: EFFECT OF RNA AND PROTEIN SYNTHESIS INHIBITORS.

L D Dunkle R Mahcshwari P J Allen

Science 163(3866):481-482 REF

31 Jan 1969 470 SCI2

Fungus diseases (plants), Heat, Plant physiology, Proteins, Puccinia graminis tritici, Ribonucleic acid, Rust, Synthesis, Uredinales.

9830-69

METABOLISM OF IODOACETIC ACID BY ORANGE LEAVES.

T J Facteau

Diss Abstr Sect B 29(3):820B

Sep 1968 Z5055.U49D53

Biochemistry, Iodoacetic acid, Leaves, Oranges, Plant metabolism, Plant physiology, Radioactive tracers.

9831-69

OXIDATIVE DEGRADATION OF AROMATIC HYDROCARBONS BY MICROORGANISMS. II. METABOLISM OF HALOGENATED AROMATIC HYDROCARBONS.

D T Gibson J R Koch C L Schuld R E Kallio Biochemistry 7(11):3795-3802 REF

Nov 1968 381 B523

Biochemistry, Enzymes, Glycols, Hydroearbons, Mammals, Metabolism, Microorganisms, Oxidation, Plant physiology, Pseudomonas putida, Toluene.

9832-69

PATHOLOGICAL CHANGES IN ULTRASTRUCTURE: FALSE PLASMOLYSIS.

P Hanchey H Wheeler

Can J Bot 47(5):675-678 REF

May 1969 470 C16C

Electron microscopy, Plant physiology, Plasmolysis, Tissues.

9833-69

OZONE. EFFECT ON APPARENT PHOTOSYNTHESIS, RATE OF TRANSPIRATION, AND STOMATAL CLOSURE IN PLANTS. A C HIII N Littlefield

Environ Sci Technol 3(1):52-56 REF

Jan 1969 TD420.A1E5

Air pollution, Ozonc, Photosynthesis, Plant growth inhibitors, Plant physiology, Plant transpiration, Stomata.

9834-69

PROPERTIES OF SINGLE- AND DOUBLE-STRANDED RIBONUCLEIC ACID FROM BAR-LEY PLANTS INFECTED WITH BROMEGRASS MOSAIC VIRUS.

C Hiruki

J Virology 3(5):498-505 REF

May 1969 OR360.J6

Barley, Chromatography, Mosaic, Plant biochemistry, Ribonucleic acid, Virus diseases (plants).

9835-69

ISOLATION OF GIBBERELLIN A20 FROM PEA PODS.

Y Komoda Y Isogai T Okamoto

Tokyo Univ Coll Gen Educ Sci Pap 18(2):221-230 Dec 1968 330.9 T572

Biological assay, Gibherellins, Peas, Plant extracts, Plant regulators.

9836-69

SNA SPRAYS TO IMPROVE WEIGHT AND SIZE OF SPRING FRUIT OF PINEAPPLES IN TAITUNG. (CH)

K H Kwong Y M Chiu

J Hort Soc China 14(1-2):35-48

Apr 1968 80 C47

Calcium carbide, Fruit culture, Growth factors, Naphthaleneacetic acid, Pincapples, Plant growth inhibitors, Plant physiology, Plant regulators, Plant water relations, Spraying, Variance analysis. English summary.

9837-69

ALTERATIONS OF THE HOST WALL SUR-ROUNDING THE INFECTION PEG OF POW-DERY MILDEW FUNGI.

W E McKeen R Smith P K Bhattacharya

Can J Bot 47(5):701-706 REF

May 1969 470 C16C

Carbohydrates, Erysiphe cichoracearum, Erysiphe graminis, Erysiphe polygoni, Fungus cultures, Plant extracts, Plant physiology, Plant tissues, Powdery mildew, Sphaerotheca macularis.

EFFECT OF INHIBITORS OF NUCLEIC ACID AND PROTEIN SYNTHESIS ON THE REAP-PEARANCE OF LIGHT INTERRUPTION RHYTHM IN A LONG-DAY DUCKWEEP, LEMNA GIBBA G3,

H Nakashima

Plant Cell Physiol 10(2):259-270 REF

Jun 1969 450 P699

Deoxyribonucleic acid, Inhihitors, Lemna gibba, Photoperiodism, Plant biochemistry, Proteins, Synthesis, Weed control.

EFFECT OF TIME OF APPLICATION OF GIB-BERELLIC ACID PARACHLOROPHENOXYACETIC ACID ON BERRY AND BUNCH WEIGHT, YIELD AND SEEDLESSNESS IN GRAPE (VAR. ANAB-E-SHAHD.

G S Nijjar G G Bhatia

Prog Farming 5(1):51-55 REF

Mar 1968 S19.P8

Chlorophenoxyacctic acid, p-, Crop yields, Dosage, Fruit culture, Gibberellic acid, Grapes, Plant biochemistry, Plant physiology, Plant regulators, Seeds, Time.

BETA-DIHYDROHEP-METABOLISM OF TACHLOR-14C IN SOIL AND BY MICROOR-GANISMS.

N H Poonawalla F Korte

J Agr Food Chem 16(1,JAN-FEB):15-16 REF 1968 381 J8223

Aspergillus niger, Biochemistry, Carbon isotopes, Dihydroheptachlor, beta-, Heptachlor, Metabolism, Microorganisms, Penicillium urticae, Plant physiology, Soils.

9841-69

EFFECTS OF SUCCINIC ACID 2,2-DIMETHYL (2-CHLOROETHYL) HYDRAZIDE AND TRIMETHYLAMMONIUM CHLORIDE ON TO-MATOES (LYCOPERSICON ESCULENTUM MILL.) AND ON TUBEROUS ROOT FORMATION IN DAHLIA PINNATA CAV.

P E Read

Diss Abstr Sect B 29(3):838B-839B

Sep 1968 Z5055.U49D53

Biochemistry, Chlorocthyl)trimethylammonium chloride, (2-, Crop yields, Dahlia pinnata, Plant growth inhibitors, Plant morphology, Succinic acid, 2,2-dimethylhydrazide, Tomatocs.

STRUCTURE DETERMINATION OF SOME METABOLITES OF FUSARIUM CULMORUM. K J Schilling

Diss Abstr Sect B 29(3):948B

Sep 1968 Z5055.U49D53

Acids, Chemical structure, Fungi, Fusarium cul-Metabolites, Plant metabolism. Stereochemistry.

9843-69

GIBBERELLIN-LIKE SUBSTANCES IN ROOT EXUDATE OF VITIS VINIFERA.

K G M Skene

Planta 75(3):250-262

07 Apr 1967 450 P693

Biological assay, Chromatography, Gibberellins, Grapes, Root excretions.

Abstact: Calculations on the rate of gibberellin movement from the roots seemed to be compatible with levels of activity in the leaves. The levels of gibberellin-like activity in the root exudate were examined by harley endosperm assay and compared with levels determined for other parts of the plant.

THE INFLUENCE OF INSECTICIDES, ACARI-CIDES AND FUNGICIDES ON THE BIOCENO-SIS OF FRUIT CULTURES. (GE)

H Steiner

Entomophaga 7(3):237-242

1962 421 EN835

Acaricides, Biocenosis, Fruit culture, Fungicides, Insecticides, Plant protection, Spraying. English summary, discussion of the suitability of 10 insecticides, 3 acaricides and 9 fungicides.

THE GROWTH AND ACTIVITY OF CELLU-LOSE DECOMPOSING FUNGI AS FLUENCED BY CULTURE CONDITIONS.

E E M Taha A A Abuzied

Zeitsch Allg Mikrobiol 3(4):275-281

1963 OR1 Z4

Cellulose, Culture media, Decomposition, Fungi, Helminthosporium cyclops, Humidity, Hydrogenion concentration, Penicillium oxalicum, Plant physiology, Temperature.

# CHEMISTRY

RECOMMENDED ANALYTICAL METHODS FOR PESTICIDES. 38. TEST FOR EMULSION CHARACTERISTICS OF EMULSIFIABLE CON-CENTRATES.

Anonymous

China Plant Protect Bull 16(4):67-68

Aug 1968 464.9 C47

Emulsions, Methodology, Pesticide analysis.

SYNTHESIS OF BENZOTHIAZOLYL-GUANIDINES AS ANTITUBERCULARS AND ANTIBACTERIALS.

N P Bhargava R Lakhan

Agr Biol Chem 32(11):1392-1394 REF

Nov 1968 385 AG8B

Bactericides, Chemicals, Culture media, Guanidine compounds, Mycobacterium tuberculosis, Synthesis, Tuberculosis vaccines.

EFFECT OF ANTISERUM TO E. COLI DNA POLYMERASE ON SYNTHESIS OF PHI CHI 174 DNA EXTRACTS OF PHI CHI INFECTED CELLS.

D T Denhardt

Nature 220(5163):131-134

12 Oct 1968 472 N21

Antiserum, Bacteria, Breeding, Cells, Chemical reactions, Deoxyribonucleic acid, Enzymes, Escherichia coli, Extracts, Lysates, Polymers, Reproduction, Sedimentation, Synthesis. Enzymes,

9849-69

BROMODICHLOROACETANILIDES AS FUN-AND NEMATOCIDES. PATENT GICIDES 3,450,822. E E Gilbert

Us Patent Office Offic Gaz 863(3):903 17 Jun 1969 156.65 OF2

Acetanilide, Fungicides, Nematocides, Patents.

DEGRADATION OF ORGANOCHLORINE PESTICIDES WITH SPECIAL REFERENCE TO I,I-BIS(4-CHLOROPHENYL)-2, DICHLOROETHYLENE. (ABSTRACT).

H Hughes I Bazant J R Brown

Can J Public Health 60(1):41-42

Jan 1969 449.8 P964

Biosynthesis, Bis(p-chlorophenyl) acetic acid, Chlorinated hydrocarbons, Degradation, Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, Dicofol, Pesticides, Porphyrins, TDE.

SYNTHESES OF PYRIDAZINE DERIVATIVES AS HERBICIDES PART III. PREPARATION OF 3- AND 4-PHENOXYPYRIDAZINES.

T Jojima K Oyamada S Tamura Agr Biol Chem 32(11):1376-1381

Nov 1968 385 AG8B

Chemical control (weeds), Chemical reactions, Chemistry, Herbicides, Pyridazine compounds, Synthesis.

PHARMACOLOGICALLY ACTIVE NEW SUBSTITUTED BENZAMIDES. PATENT 3,432,549. E Kasztreiner J Borsi L Vargha B Dumbovich E

Us Patent Office Offic Gaz 860(2):571

11 Mar 1969 156.65 OF2

Analeptics, Benzamide, Chemical structure, Elcments, Patents, Pharmacology.

HETEROGENEITY VALUES OF INSECTICIDE, FUNGICIDE OR HERBICIDE DEPOSITS AND OF THEIR RESIDUES. (FR)

P H Martens R Caussin

Bull Recherch Agron Gembloux (N s)3(1):173-181

1968 S5.B8

Fungicides, Herbicides, Insecticides, Pesticide application, Pesticide residues, Plant protection, Spraying, Statistical analysis, Tables (data).

THE APPLICATION OF POTENTIOSTATIC POLAROGRAPHY WITH THREE ELECTRODES TO THE DOSAGE OF INSECTICIDE AND FUNGICIDE PREPARATIONS. (FR)

P Nangniot

Bull Recherch Agron Gembloux (N s)3(1):182-189

1968 S5.B8

Carbaryl, Dosage, Fungicides, Insecticides, Polarography.

9855-69

DETERMINATION OF TERBACIL RESIDUES USING MICROCOULOMETRIC GAS CHRO-MATOGRAPHY.

H L Pease

J Agr Food Chem 16(1,JAN-FEB):54-56 1968 381 J8223

Animals, Bromacil, Chromatography, Coulometers, Gases, Pesticide residues, Plants, Soils, Temperature, Terbacil.

9856-69

CYCLIC DICARBOXIMIDO-SUBSTITUTED PHOSPHONOTHIOATES. PATENT 3,450,713.

H Tolkmith H O Senkbcil

Us Patent Office Offic Gaz 863(3):886

17 Jun 1969 156.65 OF2

Cyclic compounds, Parasitism, Patents, Pesticides.

PROCESS FOR THE PREPARATION OF NITROIMIDAZOLE CARBAMATES. PATENT 3,450,710.

V F Verdi

Us Patent Office Offic Gaz 863(3):886

17 Jun 1969 156.65 OF2

Carbamates, Drugs, Imidazoles, Patents, Protozoa.

N-DIALKYLAMINOALKYL-NAPHTHALENE-DICARBOXIMIDES. PATENT 3,450,714.

E Wagner

Us Patent Office Offic Gaz 863(3):886

17 Jun 1969 156.65 OF2

Analepties, Bactericides, Dicarboximide compounds, Drugs, Patents.

9859-69

SYNTHESES OF 14C-LABELED PYRETHRIN I, ALLETHRIN, PHTHALTHRIN, AND DIMETHRIN ON A SUBMILLIMOLE SCALE.

1 Yamamoto J E Casida

Agr Biol Chem 32(11):1382-1391

Nov 1968 385 AG8B

Allethrin, Carbon isotopes, Chemical control (insects), Chemical reactions, Dimethrin, Insecticides, Phthalthrin, Pyrethrum, Synthesis.

# **ENGINEERING**

9860-69

A SHORT SURVEY OF THE PLANT PROTEC-TION EQUIPMENT, APPROVED DURING 1966. (GE)

W Zislavsky

Pflanzenarzi 20(8):93-94 01 Aug 1967 464.9 P482 Fumigation, Plant protective devices, Surveys.

# **INDUSTRY**

# **EDUCATION**

9861-69

MID-STATE OF NEBRASKA: THERE'S NO MAGIC IN PEST CONTROL .

Anonymous

Pest Contr 37(1):28-29 MAP

Jan 1969 449.8 EX8

Advertising, Insect control, Pest control, Public relations, Termites.

A pest control company's public relations activities are described.

### REGULATIONS

9862-69

THE BACTERIOLOGICAL SUPERVISION OF

EGG PRODUCTION IN THE FEDERAL REPUBLIC OF GERMANY. (GE)

E Bulling

Arch Lebensmittelhyg 19(4):78-80 REF Apr 1968 41.8 L49

Eggs, Enterobacteriaceae, Legislation, Pasteurization, Poultry products, Salmonella.

9863-69

THE CLASSIFICATION OF SLAUGHTER ANIMALS IN WICH SALMONELLA HAVE BEEN FOUND, FROM THE LEGAL MEAT INSPECTION POINT OF VIEW. (GE)

E Martens

Arch Lebensmittelhyg 19(4):80-82 REF

Apr 1968 41.8 L49

Cattle, Food contamination, Infectious diseases, Legislation, Meat inspection, Salmonella, Slaughtering.

9864-69

BRUCELLOSIS. SUBPART D. DESIGNATION OF MODIFIED CERTIFIED BRUCELLOSIS AREAS, PUBLIC STOCKYARDS, SPECIFICALLY APPROVED STOCKYARDS AND SLAUGHTERING ESTABLISHMENTS.

G H Wise

Fed Regist 34(40):3616 28 Feb 1969 L1.451

Brucellosis, Livestock diseases, Regulations, Slaughterhouses, Stockyar



ABDOMEN  Parasitization of worker bumble bees of Missis-	ACETATES  Effect of 2,4-D on incorporation of 14C into uri-	The role of the amphinueleolus in meiosis and pole plasm development of Aedes aegypti.  9515
sippi by Physocephala larvae.  9387	nary metabolites from rats receiving 14C-labeled acetate.	AEDES AFRICANUS
ABORTION  Bovine mycotic placentitis in New York State.  9710	ACETAZOLAMIDE Acetazolamide. Drugs for veterinary use; drug	Studies on yellow fever in Ethiopia. 5. Isolation of virus strains from arthropod vectors.  9524
ABSORPTION	efficacy study implementation.	AEDES DENTATUS
Scrological study on barley stripe mosaic virus	9719	Studies on yellow fever in Ethiopia. 5. Isolation
protein polymerization. I. Immunodiffusion, im-	ACHROMOBACTER	of virus strains from arthropod vectors.
munoelectrophoretic characteristics, and absorption experiments.	The isolation of Bacterium anitratum (Acinetobacter anitratus) and Mima	AEDES SOLLICITANS
9542	polymorpha (Acinetobacter iwoffi) from animals	Determination of mosquito hosts in salt marsh
Crop seedling uptake of DDT, dieldrin, endrin,	in Úganda.	areas of Louisiana.
and heptachlor from soils.	9747	9318
9663	ACHRUS	AEDES TAENIORHYNCHUS
Absorption and metabolism of antimycin administered with a rat diet.	Results of the zoological research of Dr. Z. Kaszab in Mongolia. No. 163: Homoptera,	Progress report of low-volume aerial spray tests against adults of Aedes taeniorhynchus (Weid.)
ministered with a rat diet.	Auchenorrhyncha.	and Culex nigripalpus Theob.
Studies on the action of high concentrations of	9276	9523
alkylpolyglycol ethers on fish.	ACID PHOSPHATASE Fine structural localization of acid phosphatase	AEDES TRISERIATUS  The myoblastic masses and neural tissue as-
9808	and aryl sulfatase activities in the intermediate	sociated with the proventriculus of larvae of
ACANTHOCERA	layer of Hymenolepis diminuta eysticercoios.	Aedes triseriatus, A. aegypti, and Anopheles
Ochodaeinae and Acanthocerinae from the faunistic region of Ethiopia and Madagascar.	9763	quadrimaculatus. 9460
(Colcoptera Scarabacidae).	ACIDS	
9310	Structure determination of some metabolites of Fusarium culmorum.	AFLATOXIN Aflatoxin-producing potential of fungi isolated
ACANTHOSCELIDES OBTECTUS	9842	from cured and aged meats.
The influence of nutrition on the fertility and longevity of the bean weevil (Acanthoscelides	ACRIDIDAE	9782
obtectus Say).	A hymenopterous primary parasite of morabine	A simple bioassay for detection of aflatoxin in
9494	grasshoppers. 9262	milk. 9815
ACARICIDES	The laboratory breeding and embryonic develop-	AGGLUTINATION
Acute and subchronic toxicity of a new fluorine pesticide, N-methyl-N-(1-naphthyl) fluoroaceta-	ment of Chorthippus brunneus Thunberg	Agglutinating antigen from an ornithosis agent.
mide.	(Orthoptera: Aerididae).	II. modification of antigen preparation and test
9810	9432	procedure. 9709
The influence of insecticides, acaricides and fun-	Food preference as a factor in distribution and abundance of Phoetaliotes nebrascensis.	AGGLUTINATION TEST
gicides on the biocenosis of fruit cultures.	9454	Tularemia in the wildlife of Arkansas.
ACARINA	ACRIDOIDEA	9742
A catalog of Hawaiian Acarina.	The problem of the ootheea secretion in orthop-	AGING Height preferences for oviposition of
9284	teroids in the light of the most recent acquisi- tions.	aphidophagous Syrphidae (Diptera).
Aspects of the relationship between burying bee-	9340	9356
tles, Necrophorus ssp. and the mite, Poecilochirus necrophori Vitz.	ACROTELSA COLLARIS	Turkey lipid characteristics: Influence of sex, age
9476	The mode of feeding in the silverfish Acrotelsa	and estradiol-17 beta-monopalmitate.
Pests and diseases of the date palm. Part I. Mites,	collaris (F.) (Thysanura: Lepismatidae).	Aflatoxin-producing potential of fungi isolated
insects and nematodes.	ADELGES	from cured and aged meats.
9626	Parathion and lindane in the control of the	9782
A 10-year survey of Trinidadian arthropods for natural virus infections (19531963).	spruce gall aphid. 9346	AGRICULTURAL ECONOMICS
9758	ADENINE NUCLEOTIDES	Young Haywood County farmer team: How they solve some tricky problems.
ACAROPSIS AFRICANUS	Mutations of the western equine encephalo-	9659
Descriptions of some new cheyletid mites from	myelitis virus (WEE) induced by chemical mu-	Shearing by drug.
the United Arah Republic. (Acarina: Cheyletidae).	tagens. • 9757	9676
9279	ADVERTISING	AGRICULTURAL LABOR Young Haywood County farmer team: How they
ACARUS SIRO	Mid-state of Nebraska: There's no magic in pest	solve some tricky problems.
Bionomics of Androlaelaps casalis (Berlese)	control.	9659
(Acarina: Laelapidae) a predator of mite pests of stored cereals.	9861	AGRICULTURAL PRODUCTION ECONOMICS
9778	AEDES The Aedes mosquitoes of New England (Diptera:	The economic and horticultural aspects of growing macadamia nuts commercially in Hawaii.
ACCIDENT PREVENTION	Culicidae). II. Larvae: Keys to instars, and to	9530
1968 eranherry insect and disease control chart.	species exclusive of first instar.	AGRICULTURAL PRODUCTS
9557	9321	Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural
Equi-Thesin, general anesthetic. Drugs for veterinary use; drug efficacy study implementa-	Studies on longevity of adult Eretmapodites chrysogaster, Aedes togoi and Aedes (Stego-	commodities. O,O-diethyl O-(2-isopropyl-4-
tion.	myia) Albopictus females Diptera: Culicidae).	methyl-6-pyrimidinyl) phosphorothioate.
9813	9406	9532
ACER SACCHARUM  Drepupphis pullida, a new applid collected on	The representative cells of the brain of Acides	Notice of filing of petition regarding pesticide chemicals.
Drepanaphis pallida, a new aphid collected on Acer saccharum in Ontario (Homoptera:	The neurosecretory cells of the brain of Aedes aegypti in relation to larval molt, metamorphosis	9786
Aphididae).	and ovarian development.	Notice of filing of petition regarding pesticide
9314	9413	chemicals. 9788
ACERIA TULIPAE  The mite Aceria tulipae (Eriophyidae)vector of	The myoblastic masses and neural tissue as- sociated with the proventriculus of larvae of	Tolerances and exemptions from tolerances for
the onion mosaic virus.	Aedes triseriatus, A. aegypti, and Anopheles	pesticide chemicals in or on raw agricultural
9641	quadrimaculatus.	commodities. Norea.

The assay of gonadotropic effect of juvenile hormone on Acdes aegypti ovaries.

9460

9468

Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commodities. O,O-dimethyl S-(4-oxo-1,2,3-

9849

ACETANILIDE

Bromodichloroacetanilides as fungicides and nematocides. Patent 3,450,822.

# AGRILUS HYPERICI

benzotriazin-3(4H)-ylmethyl) phosphorodithioate. 9790	ALLETHRIN Syntheses of 14C-labeled pyrethrin I, allethrin, phthalthrin, and dimethrin on a submillimole	ANCYLOSTOMA Parbendazole in treatment of intestinal nematodes of dogs and monkeys.
Tolerances and exemptions from tolerances for	scalc.	9775
pesticide ehemicals in or on raw agricultural	9859	ANCYLOSTOMA CANINUM
commodities. 2-(p-tertbutylphenoxy)eyclohexyl	ALLOXAN	A comparative study of the effectiveness of
2-propynyl sulfite.	Mammary development in alloxan diabetic rab- bits injected with oestrone and progesterone.	ehemical ovieides on the survival of the soil-
	9734	transmitted intestinal nematodes.  9768
Notice of withdrawal of petition regarding pesti- eides.	ALTERNARIA TENUIS	
9794	Boll-rot potential, organisms involved, and ac-	ANDROLAELAPS CASALIS Bionomics of Androlaelaps easalis (Berlese)
Tolcrances and exemptions from tolcrances for	tual boll rot in seven eotton varieties.	(Acarina: Laelapidae) a predator of mite pests of
pesticide chemicals in or on raw agricultural	9545	stored ccreals.
commodities. 2-cthylamino-4-isopropylamino-6-	A contribution to the study of Alternaria tenuis	9778
methylthio-s-triazinc.	Nees eauser of the leaf spot of tomato.	ANEMIA .
9795	9581	A filterable, proliferating factor simulating au-
AGRILUS HYPERICI	ALTICINAE	toimmunity in malarious and nonmalarious
The status of biological control of the weed	A chiasmate sex quadrivalent in the male of an	ducklings.
Hypericum perforatum in British Columbia.	alticid beetle, Cyrsylus volkameriae (F.).  9517	9729
9667	AMBLYOMMA AMERICANUM	ANESTHETICS
AGROBACTERIUM TUMEFACIENS	Scasonal distribution of some arthropod	Equi-Thesin, general anesthetic. Drugs for
Advances in morphogenesis. (Morphogenesis of	parasites of rabbits in Louisiana.	veterinary use; drug efficacy study implementa-
crown gall, by S. Kupila-Ahvenniemi).	9379	tion. 9813
9538	AMBLYSEIUS TARDI	ANGUINA TRITICI
AGROPYRON REPENS	Preliminary observations on the biology of Am-	
Casorona new weed killer to proteet woody	blyscius tardi Lomb. (Acarina-Phytosciidae) a	Dynamics of the permeation of nematodes by water, nematocides and other substances.
plants. 9661	predator of Tetranychus urticae Koch.	9656
	9455	ANIMAL ADAPTATION
AGROTIS SEGETUM  Note on the effects of certain wild plants, tem-	AMINES Toxicologica hygienia sharacteristics of the	White spine in domestic zebu, the eattle of Azer-
perature and insecticides on the growth and	Toxicologico-hygienic characteristics of the amine salt of 2,4-D (Literature survey).	baijan.
development of Agrotis segetum Schiffer-	9818	9684
Mucller (Lepidoptera: Noctuidae).	AMINO ACIDS	ANIMAL BREEDING
9638	Effects of dietary amino acids, salts, and protein	White spine in domestic zebu, the cattle of Azer-
AIR POLLUTION	starvation on fecundity of the parasitoid Ex-	baijan.
Ozone. Effect on apparent photosynthesis, rate	eristes comstockii (Hymenoptera: Ichneu-	9684
of transpiration, and stomatal elosure in plants.	monidae). 9353	ANIMAL DISEASE TRANSMISSION
9833		Atypical foci of histomoniasis lesions in a study
ALABAMA ARGILLACEA	Cardiovasuelar studies on copper deficient swine. XII. Partial purification of a soluble	of direct oral transmission.  9743
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**ELECTROPHORESIS** 

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